

Farm and Ranch Review

VOLUME LV.
NUMBER 3

CALGARY, ALBERTA
MARCH, 1959



Last Of The Sixty Million

The shaggy Buffalo, or Bison, was not among the wonders of the New World described to the Queen of Spain by her most famous sea captain, for Christopher Columbus never did see a Buffalo.

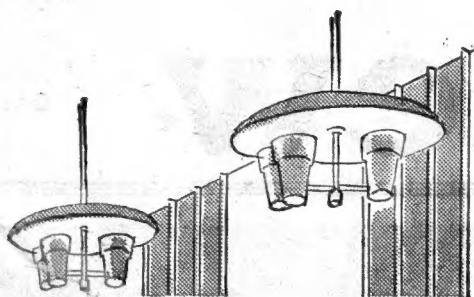
It was at least a generation later that the first white man — Cortez — looked upon the beast which then, in their millions, roamed and ruled the vast reaches of the American prairies.

Early traders, surveyors and the few pioneers relied on the Buffalo for food and other things, and he held his own during the first years of exploration and discovery. But when the White Man started mass commercial killing in earnest, the once mighty herds dwindled to a few head preserved in captivity. The only survivors running wild in any numbers are the northern breed in what is now Canada's Wood Buffalo Park.

(More about Buffalo, Page 22)

- *Agriculture In The Sub-Arctic*
- *The Feeders' Clinic — Grant MacEwan*
- *Life In The Old West; The Muskeg Trail*

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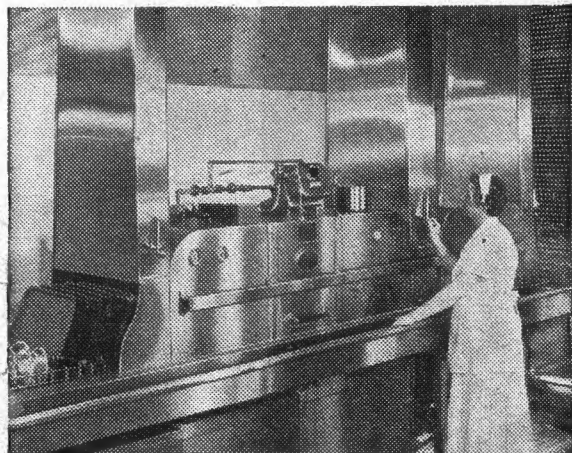
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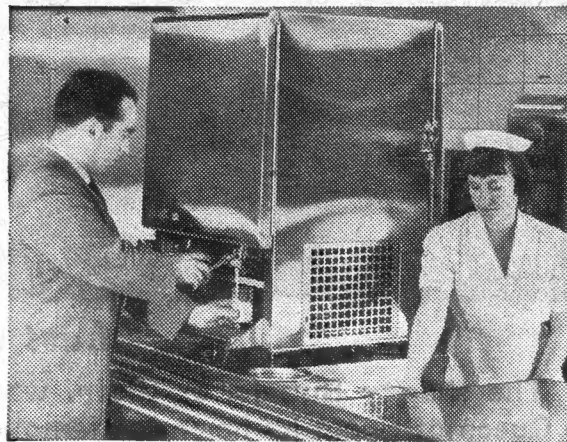
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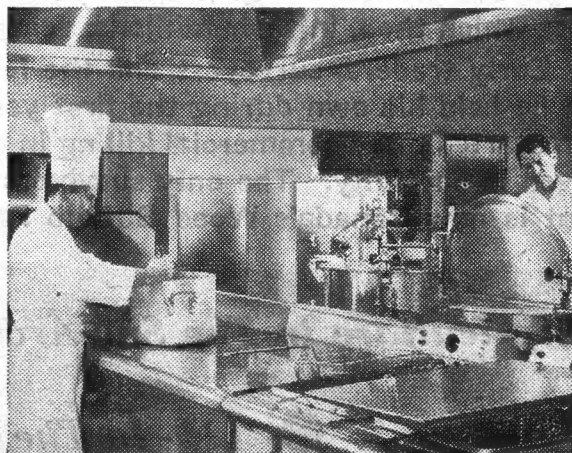
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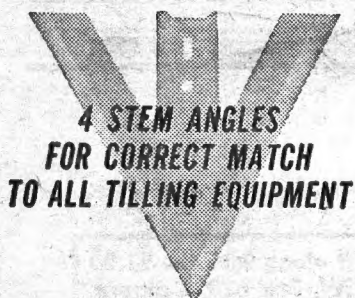
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— **ENTER OFTEN** —

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Editorials . . .

Checkrein the gift horse

*the barrel is empty of your money and mine
... but a growing government is still spending*

IF you can exist in our society without using money or credit you can stop reading now, since "inflation" may not interest you.

On the other hand if you are a wage-earner, keep a savings account, hold mortgages or loans of any kind, have an insurance policy, buy government bonds, are retired on pension or annuity, or saving for old age, then this vitally concerns you.

We are already in a period of inflation, and it shows signs of moving from a walk to a gallop.

People on pensions or savings have watched their rationed income cut to half value and becoming less daily. Wage-earners are on the tread-mill that has them agonizingly plugging for round after round of wage increases, and really getting nowhere. If you possess debt claims, they, too, are losing their value and at the rate we're

going you'll almost be giving your property away. There's no point in paying insurance premiums year in and year out if the policy becomes as valueless as the paper on which it's printed. And why save for old age when savings become worthless? How can one show faith in the country and its leaders by buying government bonds that decrease in cash value at a faster rate than their interest rate of increase?

Inflation must be halted! Unfortunately, those in the best position to do something about it, and apparently least interested, make up the government in Ottawa.

Our attention has been drawn to comments in the Senate in reply to the Throne Speech — said comments amounting to almost nine pages of Hansard's fine print, and all of them making sense.

The Hon. A. K. Hugessen accused the government of dismissing inflation — the

most vital problem in the country today — with a bare "half sentence buried in a mass of much less important matter."

The Senator showed how government, which should do most to halt inflation, could actually do most to encourage it. When government has no money to pay its bills and tax revenues are insufficient, the only alternative is for government to borrow from the banks and thereby create credit out of thin air. The banks then print more money to back it up, and with each dollar printed, all dollars in the country correspondingly drop in value.

Senator Hugessen "could understand the difficulties under which this present government labors. It was returned to power on promises of enormous expenditures of public money in every direction. It has been sustained ever since on dreams or visions of great expenditures in the north country and elsewhere, involving further great expenditures. It will be difficult to change its tune." But it must.

He wondered aloud how we came to be facing the greatest peacetime deficit in the history of the country, and came to the conclusion that it is largely due to an attempt by the Government to carry out the extravagant promises it made to electors. He deplored that the "House had to consider measure after measure of what were, to put it bluntly, handouts, to various sections of the community."

It's time we looked the gift-horse in the mouth.

The trump card

IT'S debatable which produces most hot air — the personalities all fired up by the gas export issue, or the blast furnaces that will be fired up by said gas.

One main bone of contention stems from prairie residents who feel that if the gas is to be used for industry, then let's have the industry in the west.

It is their contention — and we feel a sound one — that natural gas is one of the few trump cards remaining that might be used to fight the freight costs by diversifying our economy at home. Calgary, and Edmonton in particular, are fighting the battle for the west when they demand lower gas rates for their consumers than, say, Toronto consumers. Otherwise there is no incentive for industry to leave the big market areas elsewhere and locate on the prairies. We are now in the position of paying the freight on everything shipped in, as well as shipped out. This might be the last wedge we have to drive home to break this disadvantage, so that home industries will produce much of what we want without high freight costs.

A balanced economy has many blessings. Each small industry starting in the west starts a chain reaction that develops a whole community. Take a look at these figures from a C.N.R. study which revealed what 100 additional manufacturing workers meant to a community.

- 427 more people.
- 131 more households.
- 66 more school children.
- 117 more workers employed other than in manufacturing.
- 187 more motor vehicles registrations.
- 393 more telephones.

3 more retail establishments.
\$939,000 more retail sales per year.

These figures are naturally not completely applicable to any particular western community, as they were based on the peculiar circumstances of nine particular areas, but they nevertheless suggest the great stimulus to activity that is provided by new industry.

Resources must be used to benefit anyone, but whether we, ourselves, use them or not, let us at least assure that we are the one who profit most by their use. And above all, let us manage them in such a way that they are most cheaply and readily available to those who want to use them right here in the West.

Horse talk or horse sense

THEY say it's a matter of opinion that makes horse races.

Tommy Primrose — farm writer for the Calgary Herald — who has been writing about horses and other things for several years, probably knows that it's also a matter of opinion that makes politics. Here are some of his opinions as published in the Herald:

I wonder when we are going to grow up, get down to work and quit being sorry for ourselves. When I say "we" I mean those of us in any way connected with farmers and agriculture, but mostly I mean the farmer on the land.

Self pity is the most demoralizing disease which can afflict an individual or a section of society. Farmers have one of the biggest, most chronic cases of self pity which ever struck anyone or anything. We feel sorry for ourselves individually and collectively. We regard ourselves as martyrs, and we want the whole world to know we are martyrs.

Well it is just about time that we got it through our thick rural heads that we aren't being crucified. To use a worn-out saying: "Things are tough all over!" Certainly farming has some rough going,

but it has some good easy going too. People in every class of society and industry have worries, but most of them don't complain as often or as loud as we farmers do.

Every day, here in the newspaper office, we get some long-winded report about some submission or delegation which has gone to Ottawa or Edmonton to plead the cause of the poor downtrodden farmer. It gets a bit sickening after a while. Marches to Ottawa, thousand-name petitions asking for everything from parity prices to new dentures for grandmother.

To anyone standing a little way off we must sound like a group of juveniles who really don't know what they want or where they are going. All that is clear is that we want someone else to do something, anything, for us. We can't seem to face anything these days without a government subsidy or floor price to back us up.

Maybe the old legend about the pioneering spirit which built this country is 90 per cent bunk. At the same time we had better start digging around to see if we can find some of that old pioneering spirit. If we don't start using our own feet to stand on we are going to end up one of these generations without any feet.

The "march" to Ottawa is fairly typical of our trend in thinking on the farm front these days. The idea of a march lends a crusading aspect to the affair, but that isn't quite honest or fair. It isn't a crusade. It is just the submission of a number of requests which could have been as effectively sent by mail or telegraph as by a mass delegation of several hundred men.

Before the marchers started they were saying they didn't expect to gain anything by going to Ottawa. But it's the thing to do these days. Get down there, cry your troubles, blame everybody else for them, but don't ever think of minding your own business and doing a little, old-fashioned hard work, that is out of style these days.

What we farmers need today is a leader with a soul like Job of the Bible who will tell us the boils we have are our own fault. Maybe they aren't, but it would be good for our souls to be told we are responsible. We need someone who will roll up his sleeves and go in slugging to fight the good fight for the right and fair things. We need someone who can teach us to forget self-pity and remember self-reliance.

One of the big troubles today on the farm front is that those yelling the loudest either weren't around or can't remember what it was like when things were really tough.

Mister Primrose has provided the hot-stove league with an opinion to play with. It's up to the reader to decide whether this is horse sense, or just some more of Tommy's famous horse talk.

Top 4-H Judges of Holsteins... Alberta and Saskatchewan



These four 4-H Club members each scored 136 out of a possible 140 points in the Junior Judging Contest held in connection with the selection of the All-Canadian Holsteins for the current show season. The official placing was made by the judges at the leading Canadian shows.

Each of these contestants qualifies for a model of the True Type Holstein cow presented by the provincial branches of the Holstein-Friesian Association.

On the left is 17-year-old Lyal Fox, of Lloydminster, Sask., who was the top Saskatchewan judge. Lyal has been a consistent winner in the 4-H competition, and this year won the 4-H Championship trophy at Melfort Exhibition and the Kinsman 4-H Championship cup at North

Battleford Exhibition. This past summer, Lyal fitted, trucked, and showed his father's cattle at five different exhibitions without any assistance other than that from another 4-H boy, 14-year-old Teddy Willard. The boys trucked the cattle over 1,800 miles and won ten Championships and 37 first prizes.

The next three are the Alberta winners. On the left is 14-year-old Charles Parry of Bow Island. He was the efficiency prize winner in the Bow

Island 4-H Dairy Club, was second in judging and placed fifth with his calf. He was president of the club last year.

In the centre is 17-year-old Betty Wright, of Didsbury, who has helped to milk the home herd morning and night for the past five years and plans to attend the Olds School of Agriculture. She won a special prize for the best kept records in the Club this past year, had the top two-year-old and stood third with her yearling. During the past six years she has twice had the Grand Champion in her club, has had three other winners and has won the showmanship award.

At the right is another 17-year-old, Dorothy Scott, of Red Deer, who was the efficiency winner in the Red Deer Dairy Club this year. She has four times won the top showmanship award in this club, has four times had the winning yearling and 2-year-old and three times the first place dairy herd.

WE think the fellow is just bitter, who told us that very few married women have ulcers because they give them to their husbands.

TV is developing some strange western types in real life. In Tennessee a hombre was fined for stirring his coffee in a cafe with the barrel of a pistol. It couldn't have been because he wasn't served with a spoon, or didn't like its condition if he was served with one. In that case he would likely have pumped the waitress full of lead.

A FARMER tells us that he remarked to a neighbor: "That last hired man wasn't with you long, was he?" To which the neighbor replied: "He never was with me. He was against me from the start."

HENRY Wallace, who made a fortune with hybrid corn, believes the science of genetics can be applied to people and is making an effort to have the U.S. government keep records in that regard. The idea is that youngsters will then make proper marriages and bring mentally and physically-fit children into the world. We think Mr. Wallace forgets something. Cupid. When the one and only boy meets the one and only girl genetics, parental advice, religion, future prospects, and all other items of logic can usually take a jump in the lake.

YEARS ago in the New Yorker a cartoon illustrated a test plane diving into the ground as the designer and promoters watched the failure. The designer, with a shrug, turned away saying: "Well, I guess it's back to the old drawing board." In real life the reaction to disaster is sometimes apt to give birth to similar humor. During recent British Naval practices a minor collision occurred between two warships, due to a mix-up in signals. Immediately a signal flag was hoisted from the squadron commander's ship demanding an answer to: "What are you going to do now?" In a moment the reply from the offending skipper came back: "Buy a small farm, sir."

A little wheat— —a little chaff

by IVAN HELMER

KIDS are mixed up; adults are mixed up. And now it is happening to the animals. Down east a classified ad about a lost dog read: "Beagle pup lost. Answers to the name of Kitty, Kitty."

STUFF like the following is enough to make you wonder if the Russians aren't right about us softening up: Down Virginia way two jail prisoners made a successful escape on a Saturday. On Monday they were banging on the prison gate, demanding to be let back in. It was, they explained too cold outside.

AND a British company is displaying a bed for "The Busy Man". It comes with a tape recorder, telephone, intercom, system, electric razor, automatic teamaker, radio, push-button lights and a mink trimmed spread, as standard equipment. There is no mention of a wash-basin, or place for a back-seat driver. Buttons will open and close the bedroom curtains and lower or raise either end of the mattress. These beds are priced at \$7,000.00 — presumably to clear.

A DISTILLERY head says that liquor sales for 1959 will be up. Drunks, no doubt then, will be down.

A FOREIGN (foreign to Scotland, that is) editor claims to have received the following letter from Glasgow:

"Gentlemen, if you print any more jokes about stingy Scotsmen, I shall cease borrowing your newspaper!"

MONEY, like Mr. Kruschew's right-hand man of the moment, Mr. Mikoyan, talks, but it never gives itself away.

IF you have wondered what ails some people — and, of course, you have — this may partly explain it: Observe what kind of a mutt the person supports. A British doctor recently said: "The character of dogs, unlike humans, runs surprisingly true to breed and it is most interesting to watch a dog owner attune his or her character to that of the dog because the dog's character cannot be influenced to any great extent by the owner. Thus owners tend to grow like their dogs rather than the other way around." Gosh, what a person has to know any more to be even half presentable. And this doesn't explain us. We have no dog.

AN inventor says that we will soon have driverless automobiles. There are those unkind enough to twist his meaning and say we have them now, but aside from that if the driverless cars to come are as slow in action as the driverless elevators in modern buildings we will really have some traffic snarls.

A MODERN philosopher observes that it has been quite some time since people got cracked lips from smiling.

AND a farm woman trying to help a neighboring bachelor, asked him if he never tried new recipes. "Not me," he said, "every one I read starts out: 'Take a clean dish,' and that finishes me right there."

CHIVALRY is dead. And in Boston of all places. A John Peters recently pleaded guilty to beating a young neighbor woman, Mrs. Rose Brown, 78, with a stick. Mr. Peters is old enough to know better — he is 98.

SMALL TOWNS

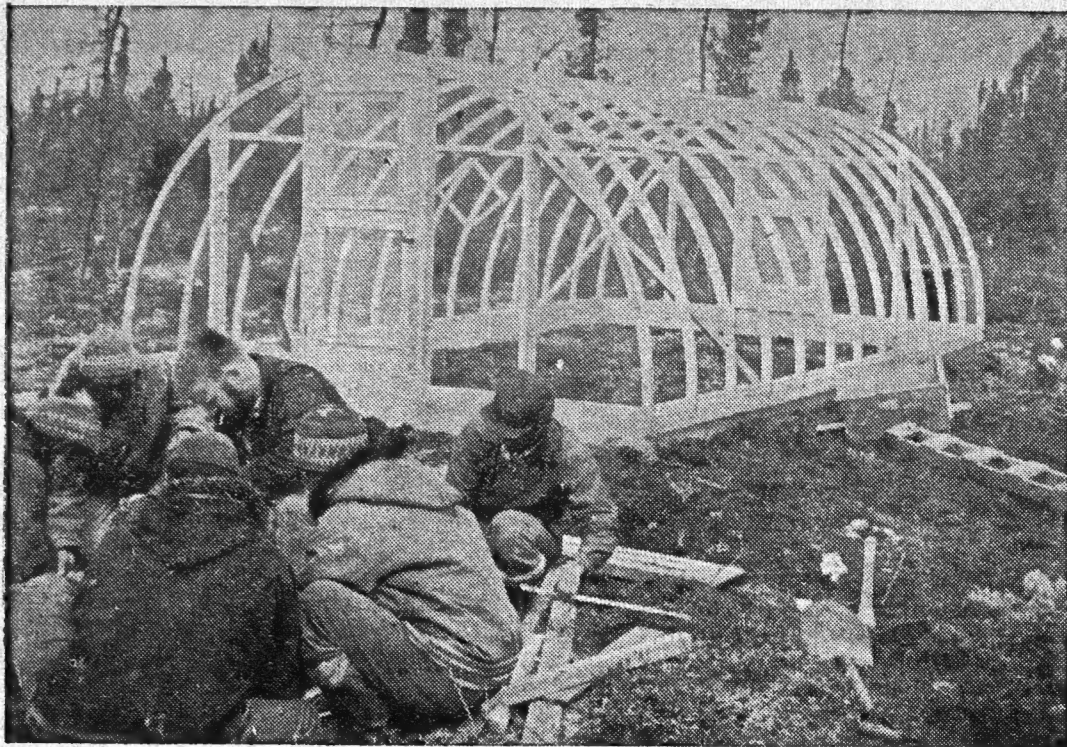
Small towns, about which
People used to joke,
Are now discovered
To have less smoke.
Fewer crowded schoolrooms
More parking spaces,
Less lonesomeness,
More familiar faces,
And lower tax rates,
A lot more calm,
And nothing at all
Worth an atom bomb.

—Richard Armour.

NOTES on Red Tape: In Britain a young husband was hauled into court for delivering his wife's first baby — successfully, by the way, and let off on probation with a stern warning, not to officiate at future blessed events.

AND in New York a civilian stenographer employed at a Naval Hospital answered an insistent telephone one afternoon about 4.30, which time is the official office closing time. Later she was summoned before a superior who demanded to know why she had answered the phone when "off duty." The girl's explanation was she didn't know if it was a minute after 4.30 or a minute before, but since she was there and the phone was ringing she deemed it proper to answer: "You are hereby officially warned for failure to carry out instructions. A repetition within one year may result in application of higher penalties," was the official written reprimand. But our heroine was made of fiery stuff. She kicked over the traces and hiring a lawyer carried a protest right to the top of the Navy. She was rewarded with an order to "expunge the reprimand" from her record.

IN London, England, a machine has been developed to translate English into Russian. It's initial effort won't put many interpreters out of work. Fed the words: "The spirit is willing, but the flesh is weak", the Russian that came out read: "The whiskey is agreeable, but the meat has gone bad."



A crew of Eskimos under the direction of a Canada Department of Agriculture instruction build a plastic greenhouse. This is at Fort Chimo, northern Quebec, where the ground is permanently frozen, making outdoor cultivation difficult if not impossible.

Agriculture in the sub-arctic

INTEREST in the agricultural possibilities of the more northern parts of Canada has been gradually increasing in recent years, due to the increasing interest in their natural resources.

As information on the possibilities of growing crops and of general farming in these areas was sketchy and intermittent, it became evident that an organized programme of research was necessary. In 1944, an Experimental Sub-Station was established at Mile 1019, Alaska Highway, at 60° 45' north latitude, 137° 35' west longitude, in the Yukon. In 1946, another was located at Fort Simpson, at 61° 52' north latitude, 121° 21' west longitude, the junction of the Laird and Mackenzie Rivers in the Northwest Territories. In 1955, a third sub-station was begun at 58° 07' north latitude,

68° 07' west longitude, in the Ungava Bay region, near Fort Chimo in northern Quebec.

The main purpose of these agricultural research stations is to collect information on all phases of agricultural problems where some commercial agriculture appears feasible. In addition to these specific locations, there are numerous co-operative tests with residents. Fort Simpson Sub-station, for example, is at present engaged in developing gardens, landscaping, and so on, at East 3, the new townsite of Aklavik. This location is the most northerly of all research centers, or some 127 miles north of the Arctic Circle.

Yukon Territory

Exploratory soil surveys, mainly along the Alaska Highway, indicated that there is possibly half a million acres that

might be termed arable land in that area. In 1957, a more concentrated soil survey was begun of the Takhini-Dezadeash Valleys, where the largest area of arable land was found. The sub-station at Mile 1019 is located in the Dezadeash Valley. Published progress reports are now available on the experimental results with field crops, horticultural crops, livestock and poultry. In most years, certain varieties of barley and oats can be readily matured. Olli barley has performed well, producing twenty-five to forty-five bushels per acre. Good feed grades of oats have been possible from Larain, Exeter and Abbekweit varieties; some years up to sixty bushels of grain per acre have been recorded. Wheat, on the other hand, is not so dependable; only in 1953 was it possible to obtain a fully ripened

sample. However, feed grades of wheat suitable for livestock sometimes reached a thirty bushels per acre yield. New varieties and selections are constantly being tested.

Many horticultural crops have been tested at the sub-station. Some crops could not be grown successfully outdoors and must be grown in greenhouses or hotbeds. Greenhouse culture has been successful with Quebec 152, Early Chatham and Early Lethbridge tomatoes, Surecrop Hybrid and Marketer cucumbers, and Tendersweet peppers. Unsuccessful garden crops are beans, parsnips, onions from seed, sweet corn, pumpkins and other tender vegetables, easily affected by light frosts. The choice of small fruits is very limited and not too dependable.

Each year, new species of annual flowers are tested and the list for successful planting continually revised. The interest in ornamental varieties is increasing with the growth of population in the settled areas.

Various classes of livestock can be raised, for it has been shown that feed supplies can be produced locally. Dual-purpose Shorthorn cattle have been increasing steadily. Beef breeds are being introduced. According to reports, cattle of the Highland breed can be raised without supplementary winter feed in certain sheltered areas.

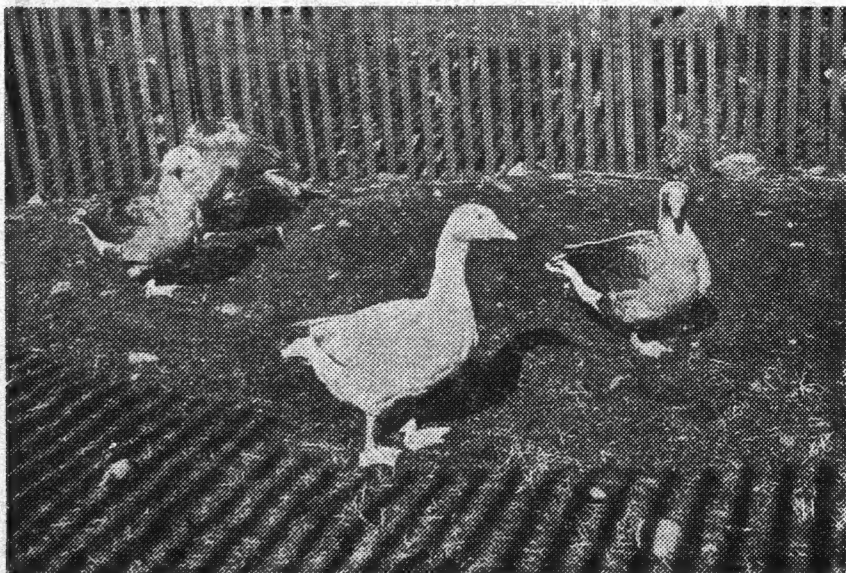
In recent years, hogs have been raised, using locally-grown grains for feed as much as possible. Sheep have not yet been tried at this station.

At Dawson, crops of potatoes, carrots and most common vegetables can be grown. At Carmacks and Keno Hill potatoes are successfully produced on a commercial scale. Here a few greenhouses and hot houses may be observed.

Northwest Territories

This vast area is estimated to contain about one million acres of agricultural land, mainly along rivers and streams in the Mackenzie River valley. The Fort Simpson Sub-Station serves the region from Fort Smith on

(Continued on page 10)

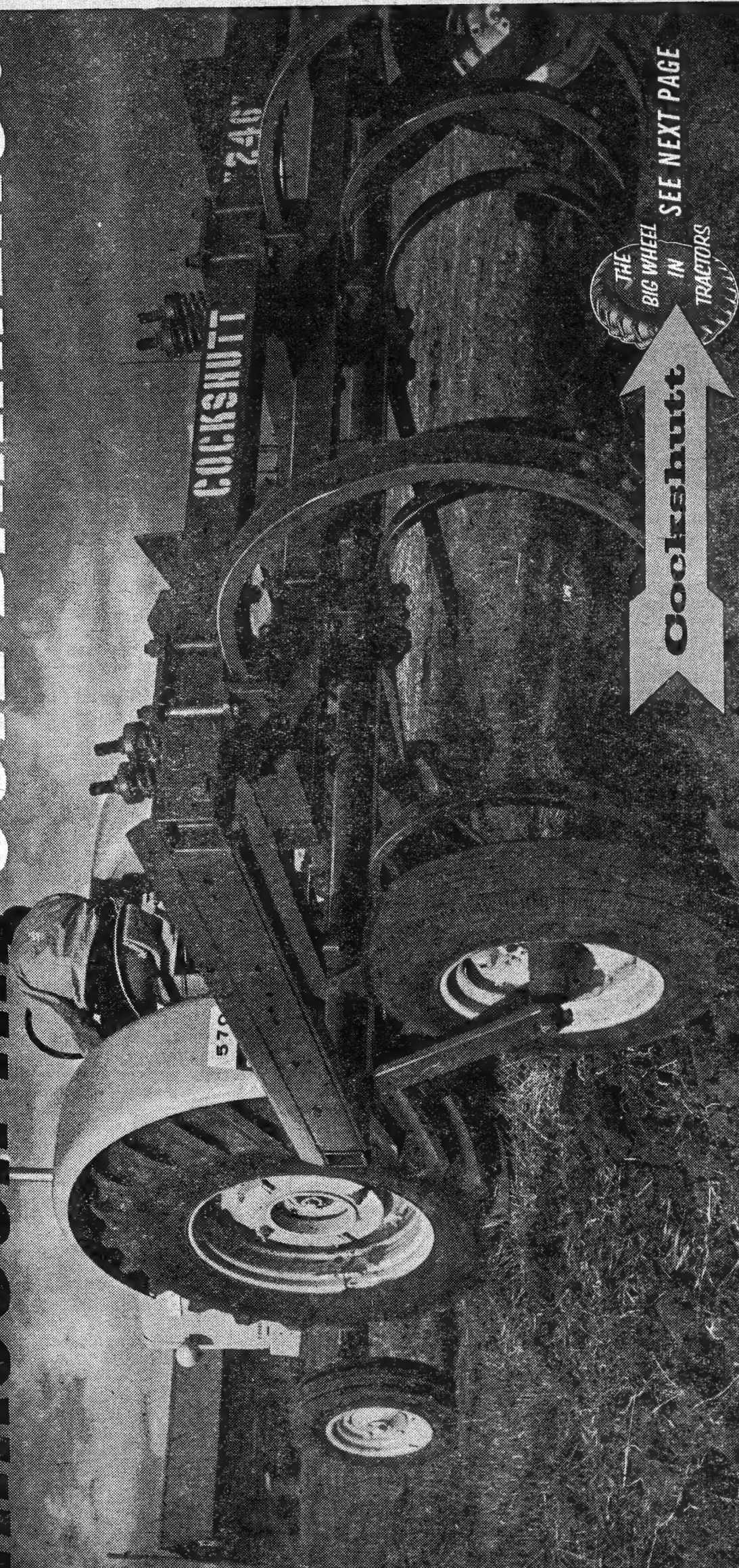


Winter holds no terrors for the fowl raised in agricultural experiments at Ungava Bay. These birds were raised from young goslings and successfully came through the winter.



This young Eskimo boy in the Ungava Region of far northern Quebec is fascinated by the young goslings that were flown in from Ottawa. After an initial three weeks brooding, the geese were successfully raised on the natural range.

1959 COCKSHUTT BREAKS THROUGH THE SOIL BARRIERS!



Cockshutt

THE
BIG WHEEL
IN
TRACTORS
SEE NEXT PAGE

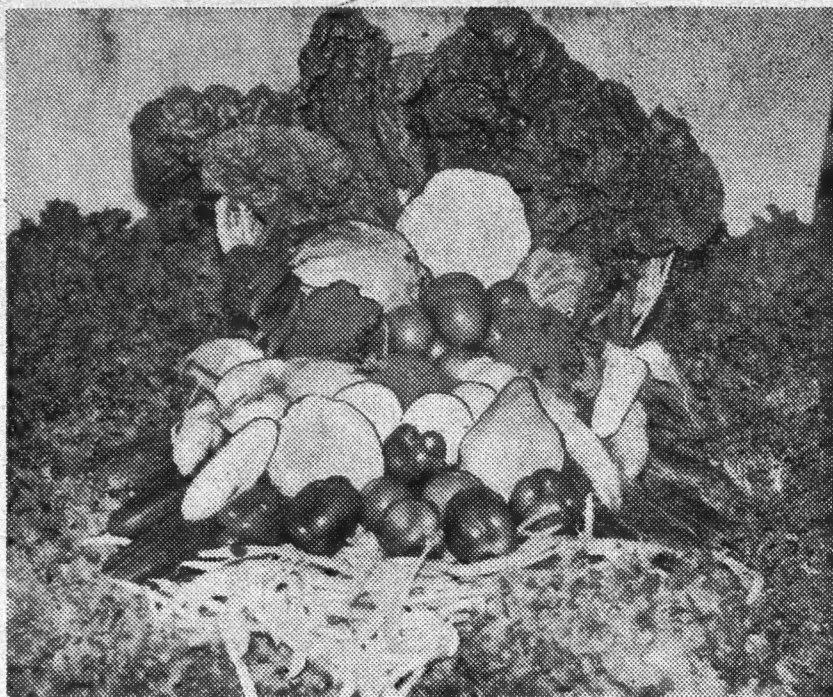
(Continued from page 8)

the boundary of Alberta and north throughout the broad valley of the Mackenzie River to Aklavik. There the climate is not quite as severe as at Mile 1019, but it is still the limiting factor in satisfactory crops. Spring wheat has attained maturity and a good grade, about forty bushels per acre have frequently been obtained from Thatcher and Saunders varieties, such as Beaver and Victory oats or Newal and Olli barley give successful crops. Alfalfa can be grown and often yields 1.25 to 1.75 tons per acre.

The list of successful horticultural crops is longer at Fort Simpson than at Whitehorse, and even early tomatoes occasionally ripen in the field. Bush or Butter beans can be grown in the open, and Round Pod Kidney and Stringless Green Pod have been successful. Broccoli, Brussels sprouts and cabbage are hardy enough to be set out in the garden after being started under glass. Cabbage grows, even as far north as Aklavik. About the only crop that fails at Fort Simpson is sweet corn.

Some common vegetables like potatoes, cabbages, turnips, carrots, radishes, lettuce and sometimes peas can be grown considerably north of Fort Simpson. Fort Wrigley, Fort Norman and Fort McPherson frequently have good gardens. The main consideration is of early varieties, proper fertilization and cultural practices.

An interesting observation was made at the new Aklavik townsite. Common vegetables grow regularly at Old Aklavik, where the soil has been warmed up during many years of cultivation. East 3 is located thirty



With the help of a greenhouse, the rich soils and long summer days will produce most of the vegetables needed in the human diet. Even at that, cucumbers, peppers, tomatoes and corn are the only ones that need the help of the greenhouse. This pile of vegetables was grown at Whitehorse in the Yukon.

miles east and the climate is similar. After removal of trees, the soil was cultivated and prepared for cropping. In 1956 permafrost was found fourteen inches under the surface. Naturally crops germinated poorly and grew slowly. Only an odd blossom, for example, was observed on garden peas. The following year the same area was planted. By 1st August the active layer of soil was three feet deep before permafrost was encountered. Crops in general looked fairly healthy and some green peas in the pod were obtained. Potatoes did not do so

well, but it is believed that in a year or so they will produce regularly when permafrost recedes to more than four feet.

Ungava Bay Region

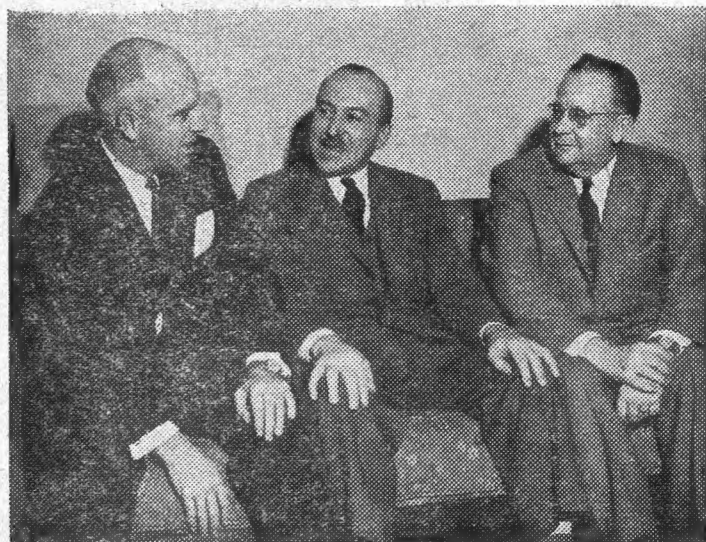
This whole area with sub-Arctic conditions has a climate more severe than Whitehorse or Fort Simpson. It has less permafrost than Aklavik, East 3, but good soil is scarce. The sub-station site chosen is not very far north by latitude (58° 07' north latitude). It is south of Fort Vermilion, Alberta. It is, however, about 700 miles north of the nearest agricultural set-

tlement in the Lake St. John region in Quebec.

Soil must be properly fertilized in order to produce certain crops. Olli barley has produced mature seed when fertilized with 100 pounds of ammonium phosphate. Without this fertilizer the barley hardly headed out. Some common vegetables can be grown, but not very regularly. Research is now directed to the use of plastics for constructing cheap greenhouses and cold frames to produce the more tender crops.

Sheep have been raised successfully, for there is plenty of summer browse. The problem is winter feed. There are no natural hay meadows; but it is believed that oat bundles and cultivated hay crops can be grown. Domestic geese, after the first three weeks of indoor feeding, were raised successfully on the native vegetation. In the fall some feed grains were given again, and by mid-September the birds averaged over thirteen pounds in weight. Laying hens were raised at Fort Chimo from day-old chicks and were kept throughout the year. No extra heating was necessary during the last two years. In 1958, eggs produced at Fort Chimo were incubated and chicks were successfully hatched for the first time.

Agricultural development is limited in this area, but kitchen gardens and side-line farming may be successfully undertaken. Information is being sought to reclaim tidal flats of good soil along the False River, where mining and other occupations point up the need for this research.



Looking quite satisfied with the meat packing industry prospects for the coming year, Federal Agricultural Minister Douglas S. Harkness, sits between officials of the Meat Packers' Council at the 39th Annual Meeting of the Council in Montreal last month. On his right is Earle S. Manning, of Toronto, managing director of the council, while looking on from his left is the new president of the Council, Jack K. Carrol, of Winnipeg.

Sweeping changes in packing

The Meat Packers' Council of Canada heard some sweeping words about some even more sweeping changes in sight for packinghouse methods, at the Council's annual meeting in Montreal last month.

J. W. Ruddell, of Canada Packers Limited, one of the Nation's largest meat processing firms, says that these changes are already underway. He cited trends such as automatic weighing of sliced bacon, pump-type meat stuffers, continuous mincers, better wrapping machines and new packaging.

He outlines an important step being taken in the lard rendering process, curing of hides and the use of formed waste material. Various companies have been working toward a process that produces good quality lard quickly and continuously, he said. He commented on new developments in the field of hide processing, and felt that the brine curing of hides is economically sound and will continue to expand.

Deal with bonded dealers

FARMERS should be sure they are doing business with established, bonded dealers when dealing in seed warns the Saskatchewan Dept. of Agriculture. A Regina firm, it says, dealing in Ramsey Durum wheat seed in 1957 to 1958, was prosecuted in court and fined \$300 on three separate charges of buying seed without a license under the Saskatchewan Seed Dealers' Act, recently.

The crown charged that the company had entered into an agreement with three Saskatchewan farmers to buy the seed early in 1958. The farmers claimed deliveries totalling nearly 1,800 bushels of seed had been made, but no payment had been made by the company.

Saskatchewan seed dealers are licensed and bonded so if a dealer is unable to pay for seed ordered from a farmer or deliver seed to a farmer, financial restitution may be made. Seed dealers without agents are under a \$5,000 bond and those with agents a \$10,000 bond.

The north Saskatchewan seed company was unable to pay about \$60,000 to farmers from whom it had bought seed for sale.

Magistrate L. F. Bence, who tried the case, reportedly said this was a bad situation for farmers who entered into sale contracts with the company. "This is, of course, the reason for the government's insistence that such companies be of substantial standing, and properly licensed before doing business," he said.



Breaks

through the soil barriers...

Cockshutt's powerful "500" series tractors reduce down-shifting to a minimum when tools hit hidden soil barriers. They glide you smoothly through the toughest spots...effortlessly pull tillage tools that dig deep to crack the crusty hardpan formations. Their success as soil-busters comes from power, strength and extra pull:

POWER...

Powerful, short-stroke engines develop more power than ever before. Won't pull down even when lugging through roughest ground.

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Deep tillage transmission...strongest, quietest tractor transmission ever built, smooth shifting. Pulls heaviest loads silently without gear damage.

EXTRA PULL

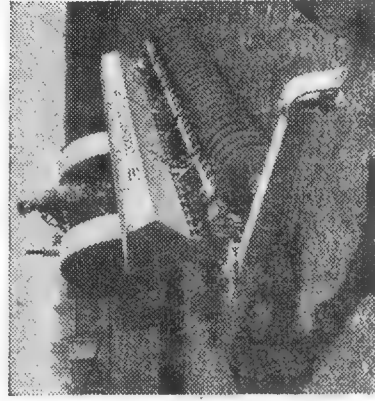
New, big-capacity hydraulic system automatically transfers extra down pressure from plow to rear wheels when pulling through a tough spot. Gives greater traction, less wheel slippage without reducing tillage depth.

'59 COCKSHUTT...SUPER SOIL·BUSTERS

MATCH Cockshutt's work-saving tillage tools to one of the powerful Cockshutt "500" series tractors and you've got a team that will make short work of any field. These are just a few from Cockshutt's big selection of tillage tools, the tools that made the Cockshutt name famous. See them at your dealer when you try out the new Cockshutt tractor.



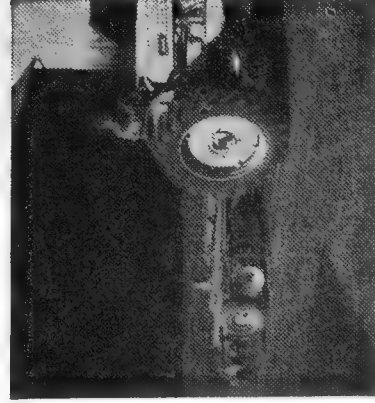
Cockshutt's "246" heavy-duty cultivator... Canada's most popular cultivator... works down to 15" to crack and rip through hardpan formations, or its 16" sweeps can run just below surface to cut off weeds or stubble.



Cockshutt's "225" disc harrow... a Cockshutt "first" and best in the west... does three jobs at once—tilling, seeding, packing, all in one operation. New Jumbo seed box has 50% increased capacity.

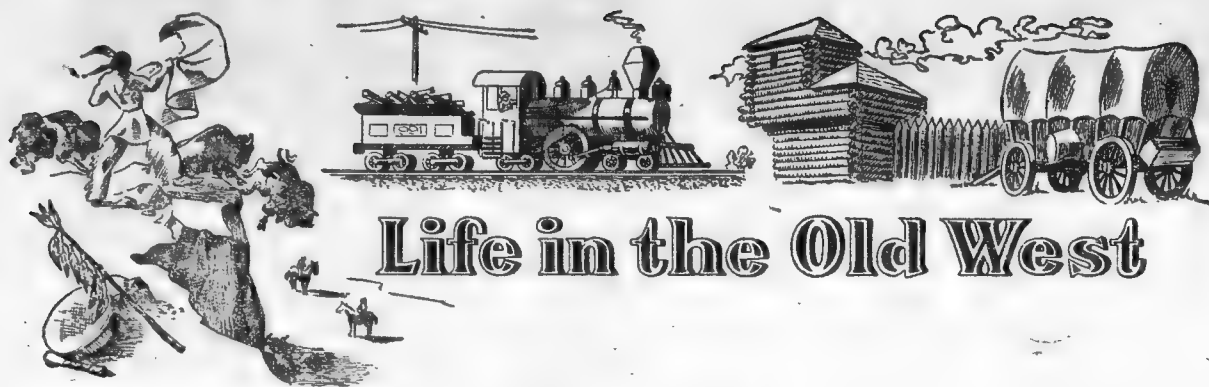


Cockshutt's all-new mounted "280" plow, in 2 or 3 plow, has high-clearance design and trip bottoms. Adjustable safety trip standards protect both plow and tractor from damage. Cockshutt plows are world famous.



Cockshutt's "262" disc harrow is just one of many that can do the job with fewer trips across the field and have adjustable discs of hardest steel for maximum cutting, deepest soil penetration.





Life in the Old West

The Muskeg Trail . . .

by BEATRICE CLINK

"CLEAN mad for the muck called gold," were the words used by the late Robert W. Service in describing the fever of the Klondike gold seekers. Clean mad, too, were some of the expeditions which set out for the foot of the rainbow, and the trails by which they travelled.

Probably no trail in the world was more nebulous, or fraught with more difficulties, than the so-called "overland route" of '98 from Edmonton to the Yukon. This was strictly an imaginary route and about as well defined as, say a trail from Norman Wells to Russia.

One of the parties which started out on this trail and a party, by the way, well-equipped and not of the green-horn class was made up of: Frank Walker, Johnson Carscadden of Ft. Saskatchewan, Thomas Cinammon

of Agricola, J. H. Reed and Albert Walker of Lamont, and Wm. Hepburn of Saskatoon.

"Six of us started from Edmonton for the Yukon by the Overland Trail, but only three arrived there. I'm glad I made the trip, but I wouldn't have repeated it for all the gold in the Klondike."

These were the sentiments expressed by Frank Walker, M.L.A., in his written account of the journey now in the Provincial Archives in Edmonton.

The party left Edmonton on the 8th of March, 1898, intending to make Fort St. John before the ice went out of the Peace River.

They travelled with cayuses and Indian jumpers, the runners of which, made from birch were very serviceable for crossing the rough terrain that lay ahead of them. One cayuse was hitched to each jumper with a load of about 800 pounds. They had 35 horses and one very tough mule called Sophie.

By the time they reached the Athabasca, many of the preceding parties had become discouraged with the route and shown their sentiments by epitaphs carved on the blazed trees along the route. One of the most "killing" hills was the north side of the Athabasca near old Fort Assiniboine. The hill, a long one, was littered with broken boxes, smashed sleighs, harness,

and abandoned equipment. At the top, some disillusioned gold seekers had erected a board with a hand pointing each way. The one pointing north read: "To Dawson City, 2,433½ miles" and the other: "To Home Sweet Home."

The party was appalled at the terrible hills they had to overcome in the Swan Hills Country. But they eventually got through and arrived at Lesser Slave Lake. Here along the south shore of the lake, they found dead horses in abundance, most of them having starved to death.

From Grouard there was a passable road to Peace River Crossing, and travel was faster.

After a needed few days' rest at Peace River, they continued their trip up the river. At Dunvegan, they were compelled to get off as the ice was becoming rotten. This was disappointing. They had hoped to reach Fort St. John with their sleighs.

From Dunvegan, they continued their journey by pack horses. Some of their heavy supplies, such as flour, they left behind as they found they had too much to pack with horses.

Getting to the top of the long Dunvegan hill, the travellers looked back.

"The sight reminded us of the Retreat from Moscow," wrote Frank. "Horses, pack saddles, flour, pork and beans and

other equipment were discarded all over the hillside by those who had gone before. Our horses, balking at the climb, laid down, rolled and did everything to get their loads off."

But trouble was only beginning. Soon they reached swampy land. As the frost came out of the ground, the muskegs became soft and were well-nigh impassable. Each small creek was flooding and dangerous to cross.

After a long exhausting struggle they reached Fort St. John, and a few days later, Chimrose Prairie, 14 miles north, where the feed was excellent for their horses. They camped and rested there for 10 days.

On this last leg, misfortune befell their mule, Sophie. At the top of a steep hill leading from a creek, Sophie's hind legs gave out. She rolled, end over end, down the hill with her load of supplies and disappeared among the trees 150 feet below. Taking two horses the men went down to bring up Sophie's load of flour and beans.

They found Sophie right side up, wedged between two good-sized trees. They had to cut down one to get her out and remove her load. Then she shook herself and walked to the top of the hill apparently unhurt. Two weeks later, however, she sickened and died, no doubt from internal injuries received in the fall.

Leaving Chimrose Prairie, the party started through the mountains by Half River and Laurier Pass to Fort Graham. Here the fishing was excellent and the pasturage good. Fort Graham was reached on the second of July. Carscadden turned back at this point, having had enough.

The rest of the party pushed on, going up the east fork of the Findlay River. They camped on the middle fork of the Findlay for a week as the grass was excellent. Travelling up the middle fork they crossed the Divide to the Black River, a tributary of the Liard. Here they had serious trouble owing to a previous party letting fires get away. These had destroyed timber and set the thick moss on fire to smoulder for months. The feet of several of the horses were burned in the hot ashes they were forced to travel through for miles.

They followed the Liard to Sylvester's Outpost, an old trading post. Here Hepburn and Albert Walker decided to give up the trip.

Cinammon, Reed and Frank Walker continued northwards. To relieve their horses, they bought a boat and floated their supplies down to Liard Post — driving the unloaded horses overland.

From Liard Post, the party journeyed up the Liard and Francis Rivers to Francis Lake. On this leg of the journey, their worst difficulties began. It was early October and there was little feed for their horses along

(Continued on page 14)

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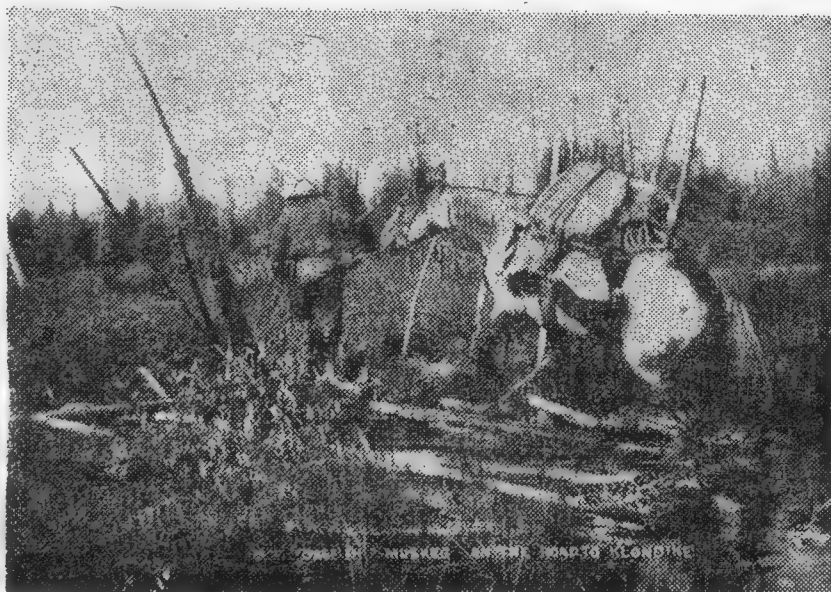
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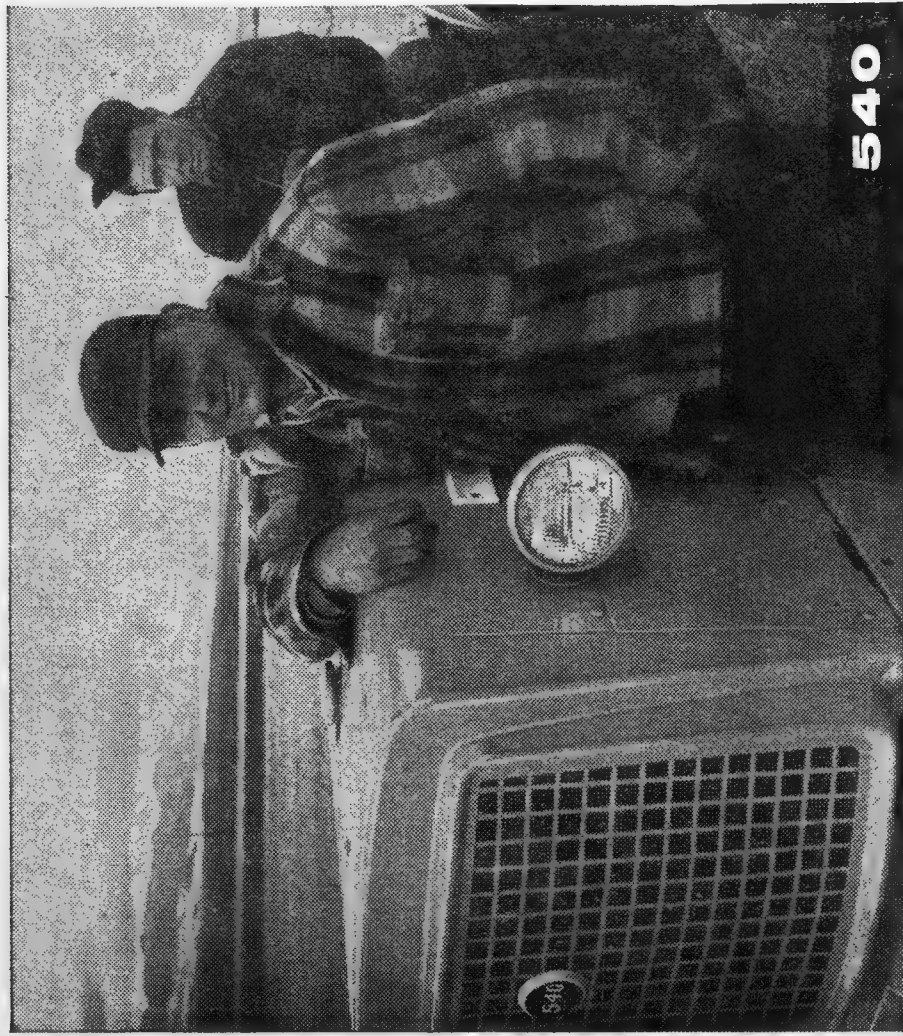
HEmlack 1-5548

204 Montcalm Street, Winnipeg, Manitoba
LEnox 3-6908

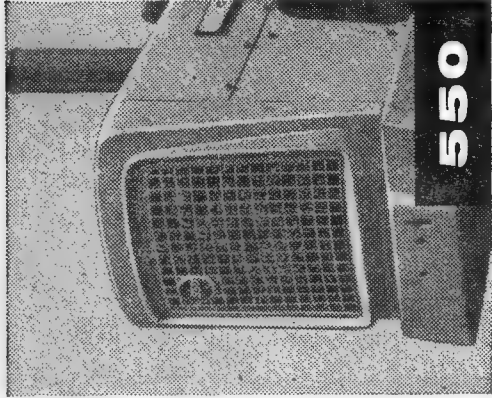
A Division of British Ropes Canadian Factory Ltd.



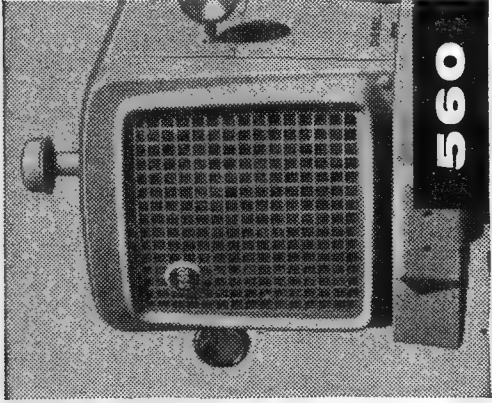
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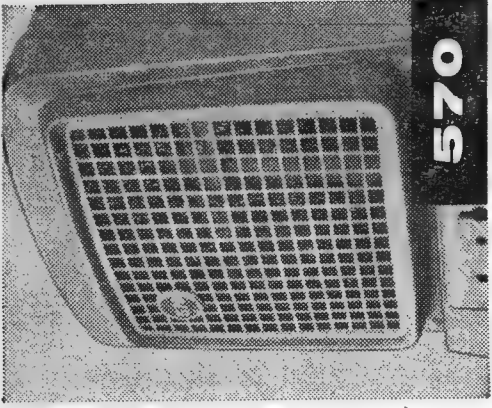
"newest of new" in gas tractors



"new power-ific leader",
gas or diesel



"economy champion",
diesel

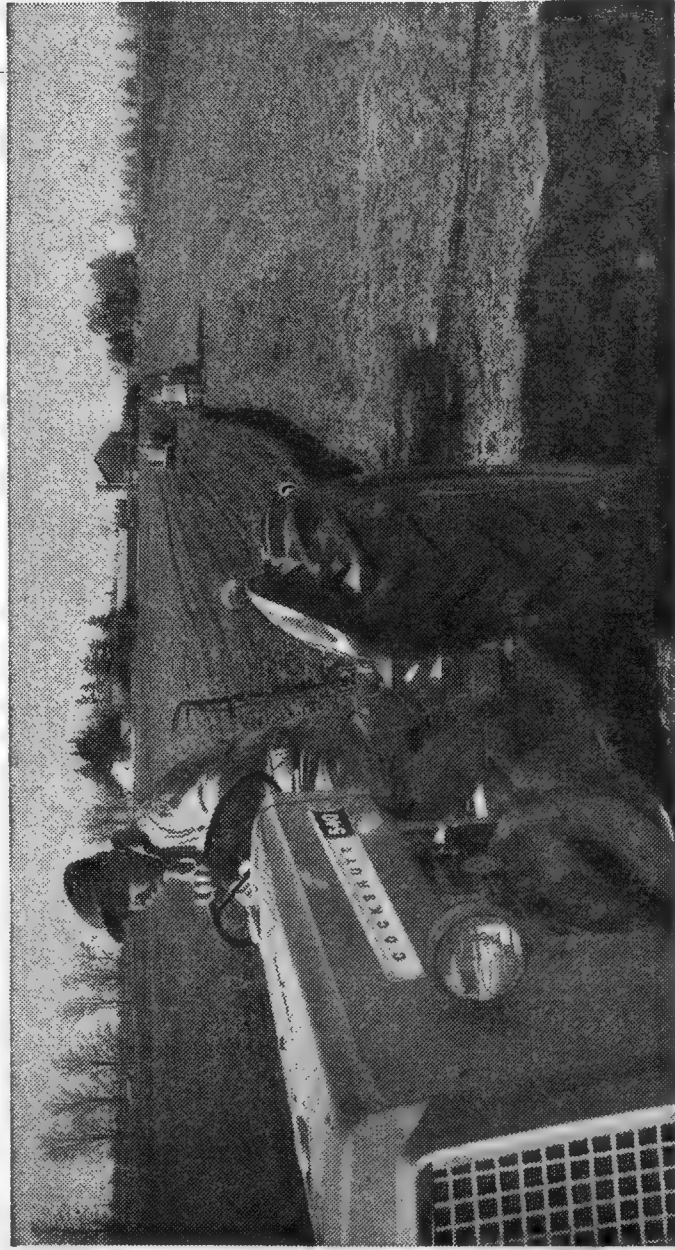


"most powerful tractor",
gas or diesel

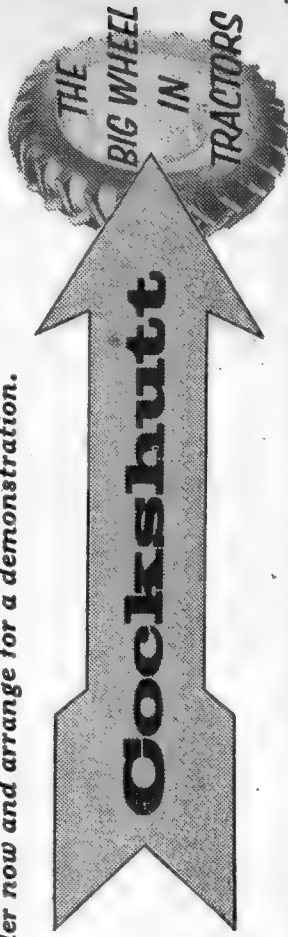
'59 COCKSHUTT "STACKS UP" BEST... AGAINST THE REST

One of the pleasures of farming is using good equipment... and there's none better than the Cockshtt "500" Series tractors. Their sleek lines and handsome "harvest gold" colour give you the first hint of their efficiency. And they ride as good as they look, with all the modern features you want in a tractor: powerful short-stroke engine, big capacity hydraulic system, deep-tillage transmission, perfected power steering, live PTO (a Cockshtt "first"), draft-and-depth control, big 12-volt electrical system and lights where you want them, widest choice of transmission speeds, and many others.

The new Cockshtt "500" tractors come in 16 models, gas and diesel. Choice of standard, row crop or adjustable front ends. *Call your Cockshtt dealer now and arrange for a demonstration.*



THREE-TRACTOR FAMILIES, like this one, or for that matter, four or five-tractor families, make up lost time in a hurry if weather delays planting or harvesting by a week or two,



COCKSHUTT FARM EQUIPMENT LTD., BRANTFORD, ONTARIO

(Continued from page 12)

the way. They lost a horse a day. At this point they were joined by a man from Missouri named Shahaun.

Shahaun and Reed elected to stay with the grub and the remaining horses, while Cinnamon and Walker pushed on with three of the best horses to Francis Lake to build a winter cabin. Ten inches of snow fell during the night making travel slow and miserable. Up the west side of the Lake they found 18 or 20 "Klondikers" already denned up for the winter. The two men bunked with this party until they had a cabin up and were prepared for winter. They were only able to subsist through the generosity of their neighbors, who were not too flush with food themselves. Because of lack of feed they had had no choice but to destroy their horses.

Their idea was to wait for the

Lake to freeze and go back for their comrades. On each attempt they found the ice not solid and travel through the bush was impossible in the wet, heavy snow. It was not until just before Christmas that they were able to make a successful start. Even then the weather was not yet cold enough to make good travel conditions.

Travelling down the river on snowshoes they found that under the snow and on top of the ice was a great deal of water. In a short distance, their snowshoes became so heavy that travelling was practically impossible. Turning up the bank, they camped in the bush.

Arriving at the edge of the timber weary and discouraged, Frank turned and remarked:

"This is hell."

"No, this is Christmas Day," replied his companion, sadly.

"I took a vow over our frugal

meal that evening of beans and bannock, that never again would I spend Christmas away from home," wrote Frank.

After several days of slow, heavy travelling, they arrived at their cache. A note left by their comrades stated they had gone ten miles back down the river to winter in a cabin.

The first thing they seized from their cached supplies was a plug, each, of a smoking tobacco, which tasted mighty good after weeks without any. They had tried smoking tea, coffee and bark, but found them poor substitutes.

After rejoining their friends, the party rested for a few weeks before making the return journey early in January. Their horses dead or strayed, they cut down their toboggans and made sleighs of them to haul their supplies to the cabin on the Lake. Out of meat they reached an Indian camp where they tried to make a deal for moose meat. The Indians aware of high prices in the Yukon asked \$1.00 per pound. Not having this kind of money, Walker and his crew seemed up against it, but a happy incident changed the picture.

The son of the old chief, who could speak a little English, said his squaw was sick and asked if they had a medicine man. Remembering the wonderful medicine chest which Reed had brought, they told the Indian they had a doctor with them.

Next day they set up this medicine chest on a toboggan covered with a gaudy colored blanket and went to the Indian camp. Taking pulses and giving out remedies, Reed, who knew some medicine, made a wonderful impression on the Indians. Next day they flocked over to the white camp, each bearing gifts of moosemeat. The journey up the river was made in easy stages. By March 15th they had reached their cabin and their new friends at the Lake.

On the 17th of March, there were signs of an early spring, so they portaged 50 miles over to Pelly Banks, on the Pelly River. They were in excellent trim and took the lead in breaking the trail for their companions, who weak from a lazy winter, had a hard time to keep going.

The entire party arrived at the Pelly early in April and settled down to make boats. As the meat was all gone by this time, they shot squirrels to eat with their beans. They had a long wait at the river. The ice did not go out until the 23rd of May. The following day, they were off, six boats in all. They had a comparatively easy time on this last leg of their journey.

At Selkirk, they received the first news for eight months of what was going on in the outside world. They arrived at their goal, Dawson City, the first week in June, all glad to be safely there and done with the mythical overland trail.

Quality seed pays

THE Canadian Bank of Commerce is to be congratulated for publishing the very excellent brochure, "Quality Seed Pays". The booklet gives a good deal of information on what makes good seed, how it is produced — and goes on to point out what happens when seed is improperly handled. This is a good publication and could well be used by seed growers and retailers as a hand-out leaflet. Supplies are available, free of charge, on request, from your local Canadian Bank of Commerce or Mr F. S. Taylor, Advertising Manager, Canadian Bank of Commerce, 25 King St. West, Toronto, Ont. — Canadian Seed Growers' Association.

The ducks win

THE ducks are still a jump ahead of the scientists

A few months back there was considerable talk about the National Research Council moving into the front lines to do battle with the great flocks of ducks invading the prairie grain fields. They hoped to produce an ultrasonic blast (that is, an extremely highly pitched sound that would be quite audible to ducks, but inaudible to humans) that would drive the ducks from the fields.

Seems that about the opposite happened. The high-pitched sound had no effect, but the low or medium frequencies were quite effective. They just wouldn't feed in the teeth of a siren roaring out at 135 decibels at 10,000 cycles. The siren might save the grain if kept going night and day. The only hitch was that it would also drive away the farmers.

The scientists have gone back for a second look at their textbooks and laboratories.

Indian art

A PERIOD in the life of Bullshead, warrior chief of the Sarcee Indians, has been depicted by Indian artists, Dick Starlight and Louise Starlight, of the Sarcees, on one of the new teepee ticket offices which will be used by the Calgary Exhibition and Stampede during Stampede Week, July 6 to July 11.

Adopting the free hand style which once came under the heading of "primitive Indian art", the Sarcees painted a story of Bullshead as a warrior returning to camp with an enemy scalp, and another story of his success in a buffalo hunt.

Local artists who watched the Indians work, praised them for their efforts.

Three teepee ticket offices will be constructed for use during Stampede week for the sale of general admissions only. They are built to scale as a full-sized Indian teepee and each will house two ticket sellers.

The other ticket office teepees will honor hereditary chiefs of the Blackfoot and the Stonys.

Ask the "Royal",
about
Farm Improvement Loans

To finance construction, repairs,
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STOCK TROUGH

Here are some of the features that have made Westeel Stock Troughs popular with farmers throughout the country!

- Made of heavy gauge corrugated galvanized steel.
- Strongly braced to retain shape.
- Rolled edge joints for extra strength.
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- Costs little to buy—nothing to maintain.
- Gives reliable service for years to come.

	Length	Width	Height
3 SIZES	7'	2'	23"
	8'	2'6"	23"
	10'	3'	23"

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Ask your local
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and prices.

Fruits and Vegetables for '59

I. L. NONNECKE, Horticulturist, Experimental Farm Lethbridge.

FROM time to time introductions of new vegetables and fruit varieties are being made by the many seed companies serving Western Canada. To fully assess the worth of these in southern Alberta, they are carefully studied in variety trials conducted by the Lethbridge Experimental Farm. The following list consists of those varieties which have generally been found to be well adapted to this area. The list includes only the types and does not suggest that other varieties could not be grown successfully.

Varieties marked with an asterisk are those suitable for freezing.

VEGETABLES

Asparagus — Mary Washington*, Viking* (Vineland 35).

Beans

Bush — Round Pod Kidney Wax* (Puregold*), Scarlet Runner*, Tendergreen*, Top Crop*.
Pole — Blue Lake*.
Dry — Burbank, Munroe, Great Northern, Red Kidney.
Broad — Windsor types.

Beets

Bunching — Early Wonder.
Storage — Detroit Dark Red.

Broccoli

Italian Green Sprouting*, Waltham 29*, Northwest Waltham 29*.

Cabbage

Early — Golden Acre, Canadian Acre.
Mid-Season — Copenhagen Market, Glory of Enkhuisen.
Late — Penn State Ballhead, Danish Ballhead, Chieftain Savoy.
Red — Danish Stonehead.

Carrots

Bunching — Touchon, Gold Spike.
Storage — Red Cored Chantenay.

Cauliflower

Snowball*, Snowdrift*.

Celery

Emerson's Pascal, Green Light, Cornell No. 19, Utah.

Sweet Corn

Early — Dorinny*, Spangcross*, Seneca 60*.
Mid-Season — Gold Rush*, Seneca Golden*, Seneca Arrow*.
Late — Golden Bantam*.

Cucumber

Pickling — Ohio MR 17, National Pickling.
Slicing — Straight Eight, Marketer.

Eggplant

Black Beauty.

Lettuce

Head — New York No. 12, Great Lakes 659.
Leaf — Grand Rapids.

Muskmellon
Farnorth, Golden Champlain.

Onions

Autumn Spice, Sweet Types, Autumn Glory.
Pickling — White Portugal.

Parsley

Champion Moss Curled.

Parsnip

Hollow Crown, Short Trick.

Peas

Early — Laxton's Progress*, Little Marvel*.
Mid-Season — Selkirk*, Lincoln (Homestead*).
Late — Perfection*, Strategem*, (Telephone*).

Peppers

Sweet — California Wonder*, Harris Earliest*, Vinedale.
Hot — Long Red Cayenne, Long Thick Red.

Potatoes

Early — Red Warba.
Mid-Season — Irish Cobbler, Pontiac.
Late — Netted Gem.

Pumpkin

Sugar, Connecticut Field.

Radish

Comet, Cherry Belle, Sparkler, Icicle.

Rhubarb

Macdonald*, Canada Red*.

Spinach

Bloomsdale*, King of Denmark*, New Zealand.

Squash

Buttercup, Acorn, Golden and Green Hubbards.

Swiss Chard

Lucullus.

Swede Turnip

Canadian Gem, Laurentian.

Tomato

Early Lethbridge, Earlinorth, Bounty, Early Chatham.

Vegetable Marrow

Green Bush, Cocozelle, White Bush.

Watermelon

New Hampshire Midget, Early Canada.

FRUITS

Strawberry — British Sovereign*, Gem*.

Raspberry — Washington*, Muskoka*.
Red Currant — Red Lake, New Red Dutch.

White Currant — White Dutch.

Black Currant — Early Topsy.

Gooseberry — Pixwell, Champion.

TREE

Apple — Haralson, Hayer No. 12, Dr. Bill.

Apple-Crabapple Hybrid — Trail, Rescue.

Crabapple — Dolgo, Florence, Columbia.

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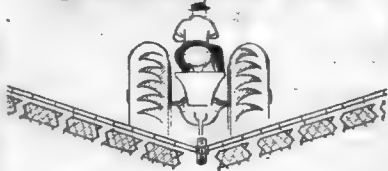
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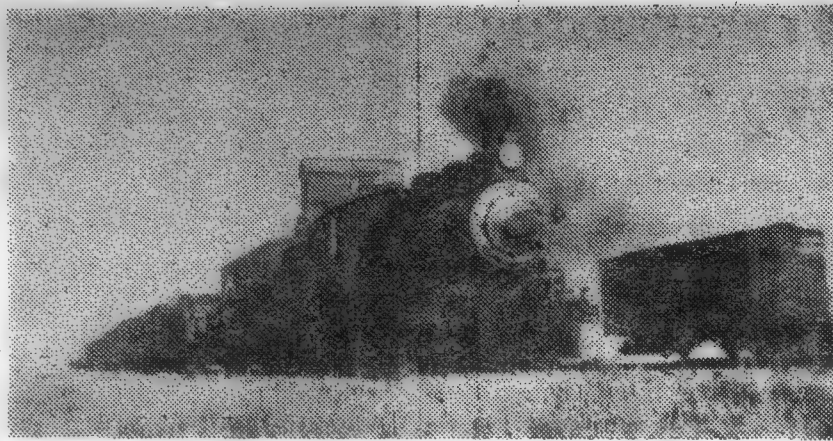
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The haunting whistle and billowing smoke of the oldtime locomotive will soon be heard no more. The engines that did more than their share to open up the west are rapidly being replaced by the modern diesel . . . efficient, but perhaps not so romantic.

When the whistle blew

by F. A. TWILLEY

IT was always a never-to-be-forgotten day in the west when the whistle blew, announcing the arrival of the first passenger train to a new-born town. It meant that tortuous journeyings over rough roads were over and touch with the great outer world was renewed. What other sound on earth could be compared to the sweet music of that first train whistle?

Just to interject a little relevant information here, may I be

allowed to add that it was in the town of my birth that the sound of a train whistle was heard for the first time, to be echoed around the world.

On the earliest English trains, a horn was blown by the driver, and it was in 1833, on the little railway running between Leicester and Burton that the first locomotive whistle was used.

A train having run down a market cart which had strayed on the track caused Stevenson



A member of a vanishing race, the old wooden coaches of the first passenger cars were real events, and, be it day or night, the entire population always turned out to greet each arrival.

boiler. When it was tested, there was heard for the first time, the sound which is now among the most familiar and the most thrilling in the world — the sound of a train whistle.

It was on October the tenth, 1889, that the train shown in the picture arrived at Swan River, Manitoba. On board was D. H. Hama, president of the Canadian Northern, also Theo Burrows, Esq., M.P. for Dauphin, and a coach full of new settlers.

Alighting from the train, all joined in singing the National Anthem, "God Save the Queen" (for Queen Victoria, of blessed memory, was still alive).

Was the train on time? As a matter of fact it was just twenty years late. The Dominion Government, during the regime of the Liberal party, in projecting its transcontinental line, chose the northern route which would have come through the valley. The survey was completed and a telegraph line erected. Then came the defeat of the McKenzie administration. The change in the government resulted in a change in the survey, and the main line of the Canadian Pacific was built 150 miles to the south.

One day a week, even if it came at midnight, as it generally did, the coming in of the train was a great event and everybody turned out to see it. Came to see who was getting off and who was getting on. (Who is the fellow with the whiskers that is getting off? The fellow with the very loud check suit? Must be, according to the bills posted around town the world-renowned tight-rope walker that has performed before all the crowned heads of Europe and who defies anyone to be able to pull him off the rope. Well, we shall see about that).

Not until all the freight is safe in the shed and everybody has been given a good looking over, and the train has pulled out for the next stop do the people go home and to bed.

The familiar whistle; more of a toot than a whistle, compared to European locomotives, will soon be heard no more on the prairies, and the big cloud of heavy smoke will not be seen, for the world moves along and changes are made. The diesel engine is taking over.

to consult an organ builder at Leicester, who took an organ pipe and made out of it a steam trumpet to be worked from the

Foot rot, etc.

WITH the approach of spring thaws and the rainy season, Fraser Valley Milk Producers warn of possible foot disorders in the dairy herd.

In "Butter Fat", they note that cows spend a great deal of their time standing in the barn, in exercise areas, or in wet, muddy barnyards, where the first sign of foot trouble is lameness.

A reddening and swelling of the skin at the hairline between the toes or at the end of the heel, also appears with foot rot.

The dairyman can often provide much of his own treatment in minor cases. A good washing with soap and water and treatment with a solution of chlorine, formalin or copper sulphate may do the trick. However, severe cases of foot rot should be treated by a veterinarian who usually uses drugs.

It is the practice with many dairy farmers to make their cows walk through a foot bath or shallow box of lime to which copper sulphate has been added at the rate of five pounds to 100 lbs. of air-slaked lime.

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STOCKMEN who sometimes feel that Lady Luck pals around with their least valuable animals while leaving their star producers open to illness and ac-



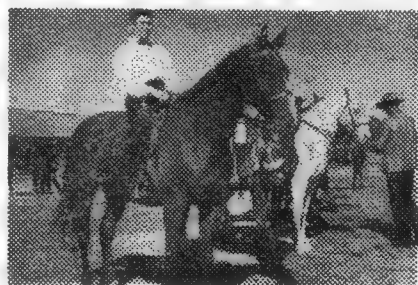
cident, aren't far wrong when it comes to sheep. Pregnancy disease actually singles out the ewes carrying twins or triplets. This toxæmia is highly fatal and yet is easily prevented with a little extra care of the expectant mothers during the last two months of pregnancy.

Ewes that lamb on pasture never have pregnancy disease, and it is not often found in a flock that is kept thrifty and gaining. Good hay, a little oats and some molasses all help fight off the disease, but perhaps most important of all is making certain that pregnant ewes get plenty of exercise. If an animal falls victim to the disease, all but

Picked Up In Passing—

by **INA BRUNS**

the most hopeless cases can be saved by prompt action of a veterinarian who will administer glucose or dextrose directly into the blood stream and drench the animal with molasses water.



BEFORE Dobbin fell victim to the butcher, every kid in our part of the country could ride. Youngsters mounted their cayuses by jumping aboard from a fence or frozen manure pile, by stepping on the horse's hocks, grasping the tail and scrambling up over his back-side, or by throwing a leg over the animal's head and being ele-

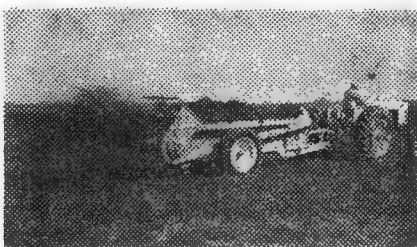
vated into position when the horse tired of its master sitting on its ears.

Kids rode 'em bareback. They thought "tach" was something the teacher sat on, and "martingale" was a bird!

But now that horses have all but disappeared from the scene, all this has changed! From the south border right up to Manning and Melfort, riding clubs and horse shows are packing them in. The kids call their nags "mounts"! They ride in English saddles and they wear riding habits. It takes them months to learn to get on their horses properly, and more months to learn to get off! Parents call it culture, but one old cow poke declares the decadence of the old west is now complete.



A THOROUGHLY closed gate can mean the difference between life and death to farm animals, and we take special note of some of the better ones we come across. One of the most efficient yet-simple latches is in use at the Lacombe Experimental Farm. The latch consists of a steel ring which is hung on a bolt behind a strap of steel. When the gate is being opened, one has only to push upward on the ring, but when the ring falls back into place and the gate is closed, it cannot be forced open.



MOST of the cattlemen we talk to tell us they not only return the natural fertilizer to the land, but they further enrich their fields by using commercial fertilizers. This is a wise practice as use of both fertilizers gives a balanced nutrient to the soil and it has been discovered that cattle prefer pastures that

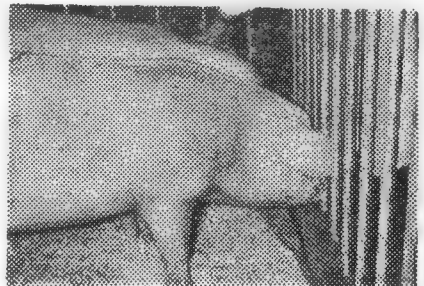
have been treated to something more than barnyard manures.

Science has a simple explanation for this matter of good taste. While natural fertilizers are of benefit to pastures, they lack phosphorus which aids in the manufacture of sugar in the forage. Cows like sweet pastures as one American farmer proved when he sprayed the most unpalatable grasses and weeds with a solution of syrup and water. The cows licked up the confection coated greenery and bawled for more!



WE cannot substantiate that beautiful myth about farmers loading their kids and money bags into Cadillacs and making a mass exodus to the sunny south with the coming of fall. Come to think of it, we don't know one farmer who owns a Cadillac, and the few farmers who do manage a winter holiday do so because that is the only time the neighbours are free to look after their chores.

Because most farm families can be away only briefly, more and more of them depend, not on cars, but on the airlines to speed them on their way. Not only has the plane proven itself safer than cars, but those who are forced to holiday in winter have the comfort of knowing air travel is at its safest when thunderstorms and migratory birds offer no threat. Winter vacationers also have the advantage of travelling at a time when prices are low, overcrowding is not evident and services are at their best. Then, too, it is a time when a farmer can relax a little and most enjoy that southern sun. Happy landing!



FARMERS who were winners in the draw for the Lacombe hogs are now sizing up the first litters from the new breed.

"It beats me how they used two lard hogs in the three-breed cross and came up with a superior bacon hog," one of the Jones boys told us as he proudly showed us their smooth, flop-eared piglets that promise to have that depth of side, the length and the well-rounded meaty hams for which the breed is noted.

Like most Lacombe winners, the Jones boys are making a study of the three breeds that



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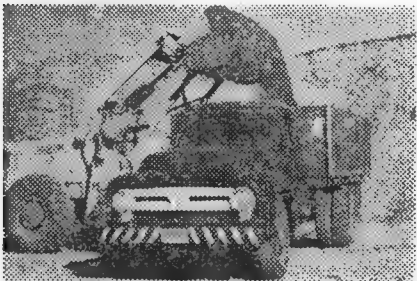
formed the hybrid foundation. They find that the black Berkshires share with the Chester White a reputation for hanging up a very superior lard type carcass, while the Berkshire and the Landrace share honors as good grazers.

To this union the Landrace has contributed its bacon-making ability—bacon that built another country's prosperity! The Lacombe breeders hope that this new hog will boost pork quality—this time in rich agricultural area where carcass grades have sagged to an embarrassing low.



IF a promising sow fails to farrow a large litter, tests show that the breeder can't blame the boar unless he is approaching sterility. The old boy does have an influence on the number of piglets his daughters farrow, however. Tests also show that the sow that farrows small litters the first and second time isn't going to improve with experience at motherhood, and the one that brings small piglets isn't the one that will give her owner the kind of feeders that make fast gains at the trough.

We know one man who, when faced with a slump in prices for market hogs, takes his best gilts from his pens of purebred feeders, breeds them and catches the prices on the upswing with an eager market for young sows about to farrow!



EVERYONE is talking about vertical intergration these days, and one farmer we met is making quite a thing of it. When rock bottom began to show through his thin soil and crops failed to come up, he kept right on going down and coming up with pay dirt—well, gravel to be exact. Today he's selling the old homestead at something like \$4.00 a scoop! He's never had it so good.

Or isn't that what is meant by vertical farming?

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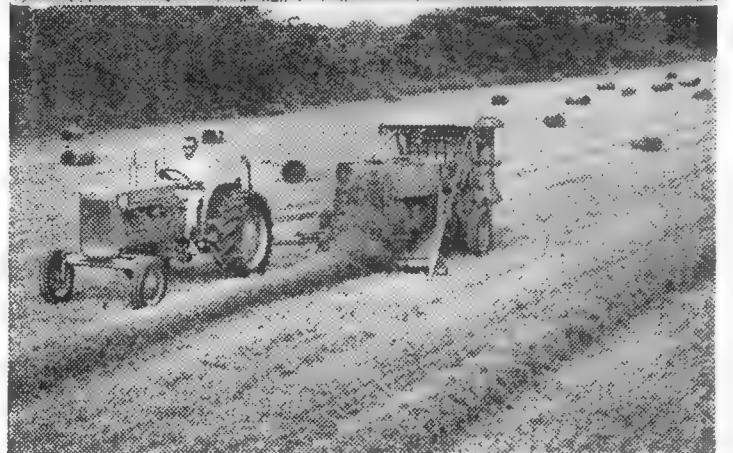
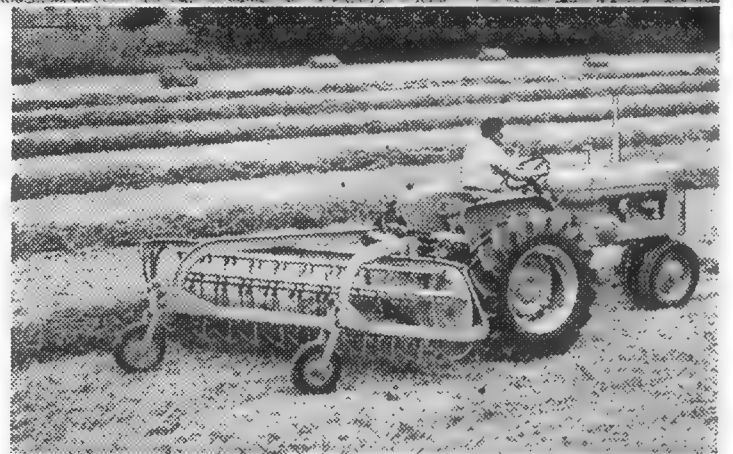


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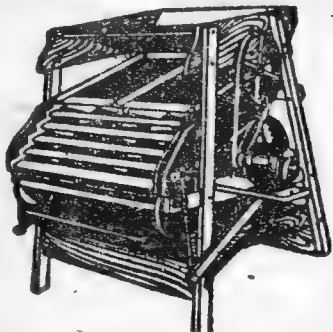
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The feeders' clinic

by GRANT MacEWAN

Q.: Some United States writers are enthusiastic about a new technique in preventing anemia in young pigs. What is it?

A.: Probably the reference is to iron dextran. Anemia in suckling pigs is the result of insufficient iron and copper and is most likely to strike when the young animals are living exclusively on plank or cement floors and denied access to soil where Nature intended they'd root and get enough of the mineral matter. For a long time, reduced iron administered by way of the mouth, or iron sulphate dissolved and sprinkled on dirt sods placed in the pen was recommended. Now there is the new carrier of iron which is injected by means of hypodermic needle into the ham muscles when a pig is a few days old. This way, a pig can't refuse to take its iron and it can't cough the supplement up. One injection seems to be enough to meet the animal's need until the critical period has been passed. But for herdsmen who prefer to avoid the use of hypodermic, the old treatments are still satisfactory

and a little iron sulphate can save young pigs, especially in the winter season. Moreover, control of anemia may be the means of preventing some secondary infections such as pneumonia.

Q.: How can I determine the number of bushels of grain in a bin by means of measurement?

A.: A bushel measure equals 1 1/4 cubic feet. In determining bushel content, therefore, one should first obtain the cubic area by multiplying the length of bin in feet by the width of the bin in feet by the depth of the leveled-off grain in feet. Then, having determined the number of cubic feet of grain, simply multiply the figure by eight and divide the result by ten.

Q.: Can bred cows be wintered adequately on dry roughage alone?

A.: Prairie wool, mixed tame hays, oat sheaves and cereal straws furnish most of the roughage for wintering beef herds although silage has proven to be a practical feed in some districts. Where the animals cannot rustle other feeds, dry cows of average size will need about 25 pounds of hay a day and such a ration with plenty of water and mineral supplement can be expected to maintain body weight. The cereal straws, by themselves, are too low in net feeding value to maintain cattle without loss of weight and supplementary feeds should be considered. In other years, when cattle ran at strawpiles, there was opportunity to pick out the best morsels and reject the coarse stems and, often, the cattle fared very well.

Q.: Which of the vitamins is most likely to be deficient in cattle rations during winter months?

A.: Vitamin A, the one needed for growth, for eye health and to build resistance to respiratory infections. There is no scarcity of vitamin A during the grazing season, but in winter, the best source for cattle is in hay having a rich green color. Hay with good color has a good supply of carotene, the parent substance of vitamin A.

Q.: Can you furnish a list of ingredients for a calf starter to take the place of milk for young calves?

A.: There are some reliable calf starters on the market and it would seem to be more practical to buy a ready-made mixture than to put all the parts together. Nevertheless, here is a mixture that gave good results in Lethbridge Experimental Farm tests reported by F. Whiting and R. D. Clark: 32 pounds of oats, five pounds of barley, 10 pounds of wheat, 10 pounds of wheat bran, 10 pounds of linseed meal, 17.5 pounds of soybean

meal, five pounds of alfalfa meal, eight pounds of molasses, 2.5 pounds of mineral mixture, 80,000 International Units of vitamin A, 16,000 I.U. of vitamin D and 50 milligrams of riboflavin. The finished mixture contained 21 per cent of protein, 4.2 per cent of fat and 9.6 per cent of fibre. The dairy calves were fed whole milk to approximately four weeks of age when they were switched to the calf starter. In their conclusions the experimental workers stated: "The results of this experiment indicate that healthy Holstein heifer calves can be taken off milk at four weeks of age and raised successfully on a calf starter made up without the use of animal proteins."

Q.: How about cull potatoes as a feed for livestock?

A.: Sure, potatoes can be used for feeding but there are some precautionary points to be remembered. In the first place, the spuds are mostly water — about 79 per cent — which means that there are only 12 1/2 pounds of dry matter in a bushel. Moreover, the same potatoes are low in protein and mineral matter. It is important, therefore, that they be fed in conjunction with feeds capable of compensating for those deficiencies. For pigs, potatoes should be cooked. And to avoid danger of choking in cattle, the tubers should be sliced. Frozen potatoes, spoiled potatoes and potato sprouts should not be fed because of potential poison dangers. But after due precautions have been observed, up to 25 pounds a day might be fed to mature cattle and 2 1/2 pounds to sheep. For pigs, 450 pounds of potatoes, when cooked, can replace 100 pounds of mixed grains. But when potatoes are fed, the need for supplements is greater rather than lessened.

Q.: For hand-fed fattening cattle, what grains are most suitable?

A.: Suggest that oats predominate in starting rations with gradual increase in the proportion of heavy grains like barley or wheat. Based on net energy, a ton of barley or wheat should have nearly 20 per cent more fattening value than a ton of oats. Barley and wheat are about on a par in furnishing feed ingredients but the latter should be fed with somewhat more caution to avoid overfeeding. It should be kept in mind, also, that for hand feeding, a daily allowance of 10 to 12 pounds of grain is considered full feed for calves and between 12 and 16 pounds a day for older cattle.

Q.: To settle an argument, does seaweed have any value as a feed for pigs?

A.: According to C. D. T. Cameron, of the Experimental Farm at Nappan, Nova Scotia, reporting to the Canadian Society of Animal Production at Saskatoon in 1953, seaweed may form up to six per cent of the rations for bacon pigs hanging

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between 40 pounds and market weight. It was thought that some improvement in carcass quality accomplished rations containing seaweed.

Q.: United States magazines are carrying advertisements for "fish digest" as a feed for dairy cows. What's to be said for this product?

A.: Various by-products from fish processing have been offered — fish meal, fish solubles, fish digest and other related feeds. Fish meal has been incorporated quite successfully in mixtures for pigs and used in a limited way for cattle. Speaking generally, however, cows are likely to find the fish by-products unpalatable. The fish digest appears to be one of the better products for cows and in a test at the University of Alberta it proved to be about equal in feeding value to that of linseed oil meal.

Q.: Are pigs likely to suffer from vitamin B deficiency?

A.: What was once called vitamin B is now known to be a family of closely related vitamins, generally considered to be present in ordinary grains in sufficient quantities to meet all needs in pigs. As a precautionary measure, some nutrition workers have prescribed additions of riboflavin, niacin and panthothenic acid for creep-fed young pigs. Perhaps such supplements are justified at the

early stage, but the addition of vitamin B carried in the rations of pigs beyond the weaning age has produced no significant response. A further qualification may be in order, however: there seems a possibility that grains grown on gray wooded soils may be low in the vitamin B factors. Reports from Beaverlodge Experimental Station show gilts fed grains from gray soils weaning pigs averaging 26.1 pounds while similar gilts eating similar grains supplemented with vitamin B concentrates weaned their pigs at 33.1 pounds.

Q.: How much antibiotic should be incorporated in pig rations?

A.: Let the question be answered by a report from the University of Alberta Feeders' Day, 1957: "Since 1949 the University has conducted experiments on the use in swine rations of antibiotic feed supplements containing aureomycin, terramycin, penicillin and other antibiotics. Our general recommendations for bacon hog production are that creep feed and early starter rations should contain 25 to 50 grams of antibiotic per ton of feed, with 10 grams per ton being used in growing rations." There follows a precautionary note to the effect that antibiotics in the ration may cause some increase in backfat with corresponding decrease in carcass quality.

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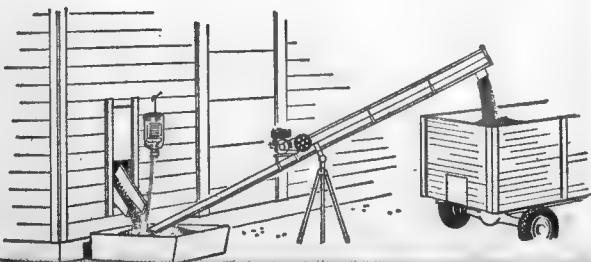


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Experiment stations all over the world have proved Panogen an effective and potent disinfectant for destroying diseases on wheat, oats, barley, flax, and other crops. Its effectiveness is attributed, in part, to powerful invisible vapors which spread from seed to seed penetrating every crack and crevice of each kernel, destroying diseases where

chemicals without such vapor action couldn't reach.

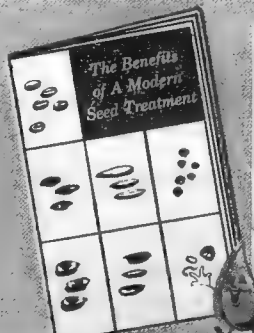
Panogen adheres permanently to the seed coat—imparting a red coloring on most of the seed to show that seed is treated. This assures that treated seed won't be used for feed. Planting can be done almost immediately or the following season ... and you can expect better stands, healthier plants and bigger yields.

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16 pages. Describes crop diseases, how seed treatment works, how it contributes to better stands and yields. 30 photos. Separate section on wheat, oats, barley, flax, cotton, sorghum. Mail coupon at right, for your copy.



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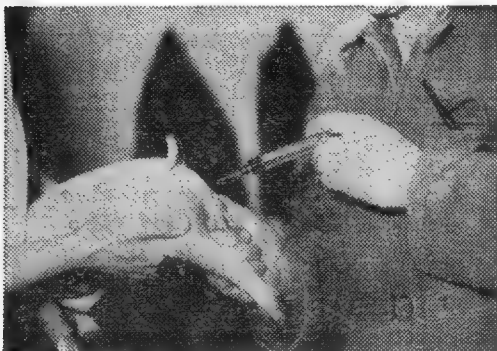
But originally his results weren't so good because of constant trouble with baby pig anemia—a serious matter for Mr. Boyes with his herd of 30 purebred Yorkshires. All attempts to wipe out anemia failed until he used Imposil. The results were dramatic.

Explained Mr. Boyes: "All hog raisers know that pig anemia is caused by a lack of iron. And in concrete-floored pens like ours anemia is worse. I tried all sorts of iron pastes, powders and tablets with little result—and besides, weekly treatments took far too much time."

Then Mr. Boyes was offered the chance to field-test Imposil before



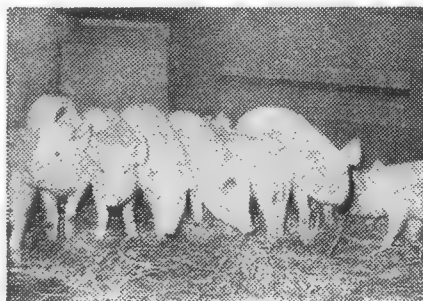
it was marketed in Canada. Imposil is the new, stronger, fully absorbed iron injection. "I gave each pig a single 2 c.c. shot of Imposil at 3 days of age. It only took about 10 minutes to do a litter. In a few days I knew my anemia troubles were over."



"Since then I've used Imposil on every litter and never once have I seen a sign of anemia or anemic scours. What's more, the average weaning weights at 8 weeks have gone up from 30 to 37 lbs."

Research has shown that a lack of iron not only slows down growth, but also lowers a pig's resistance to disease. Imposil was developed to provide young pigs with all the iron they need—even pigs that are slow to creep feed.

Said Mr. Boyes: "Our sows have farrowed an average of 10 pigs per litter and since we started using Imposil we've had no trouble at all. Proof is in the weaning figures—an average of over 9.4 pigs per litter."



A thrifty group of Imposil treated pigs

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After thousands of years to roam at will, it is a sad come-down to the monarchs of the plains to be herded into reserves to be destroyed at the white man's will.

More about buffalo

By Kerry Wood

SHAGGY bison are in the news again. There have been public hints about hunting seasons on surplus animals, strayed beyond the boundaries of Wood Buffalo Park on the western side of Lake Athabaska. Then there is another item about trying to locate an undiluted strain of wood buffalo, the large, north-ranging sub-species of the plains animal.

Once there were millions roaming the continent's grasslands. While we now think of them as being typical North American fauna, scientists tell us that bison had their original home somewhere in central Europe. From there they moved eastward, finally crossing the land bridge that once connected what is now Russia and Alaska. Eventually the animals spread all over the green pastures of the New World.

Meanwhile their close relative, the aurochs, continued to thrive in the forests of Germany. Bison and aurochs are members of the ox family, the same as domestic cattle. The "buffalo" name is misleading as it belongs to an entirely different species, but at this late date we'll never shed that popular nickname. While bison populated North America, their auroch cousins were used in Roman arenas as savage wild bulls turned loose against Christians and other persecuted groups. Aurochs were exterminated in their home territory shortly after Columbus crossed the Atlantic in 1492.

Dear old Chris never saw a North American bison, even though there were an estimated sixty millions of them alive at that time. Columbus cruised the old Spanish Main of the New World, far from the inland pastures favored by buffalo. Historians claim it was Cortez, the cruel conqueror of Mexico, who was the first European to see one of the shaggy wild oxen on this continent. The specimen Cortez saw was in a cage, featured in the wild animal zoo maintained by the king of the Inca Indians, Montezuma. The year was 1519.

Buffalo millions dwindled rapidly as white men advanced westward. Experts say that as recently as 1850, there were still twenty million at large. A brief thirty years later the Indian tribes dependent on buffalo for food, clothing, and teepee skins were starving and destitute, because the once vast herds had been exterminated. A few dozen animals were given sanctuary on private lands—one small herd was saved by an Indian called Walking Coyote. Two Montana ranchers bought up all available live buffalo, and by 1900 their animals had increased to three hundred head, purchased by the Canadian government to restock our parklands.

Now newspapers advise us there are 2,500 expendable buffalo, strayed beyond Wood Buffalo Park boundaries. The suggestion has been made that licensed hunters be allowed to go after the animals every autumn. It would be a rich man's sport, because of the high cost of flying to the region and getting outfitted to hunt in that remote part of northern Alberta.

The idea is not entirely new. For example, there is a large ranch in the western States devoted to the raising of buffalo. The enterprising owner advertises in sport magazines every autumn, offering hunters the chance to come and shoot themselves a buffalo—or two or three or as many as they want. At the price of \$500 per animal, which may or may not include accommodation and meals during the hunt. Hence the bloom is off the novelty of a buffalo safari, even in this modern day and age.

Years ago, I suggested by means of magazine articles and book chapters that surplus game animals (elk as well as buffalo) should be humanly shot by expert government hunters, properly butchered, and the meat sold in tourist resorts across Canada. In that way you and I, and visiting tourists, too, could order a game-meat dinner in a National Park restaurant and enjoy the novelty of dining on

something quite different from ordinary fare. I still believe this is a much better way of disposing of surplus buffalo, instead of reserving them as game animals for wealthy sportsmen.

As for the wood buffalo strain, sometimes called the Athabasca bison, these were officially re-discovered in 1916. Long after buffalo had been exterminated on the plains, rumours came through Indians, trappers, and fur-traders that buffalo were still roaming the muskeg and forest lands near Lake Athabaska. A government survey party worked west of the big lake in 1916 and '17 to mark a base-line, the surveyors being instructed to check on the live buffalo story while they were in that territory. They sighted a few animals and found track evidence of others. Thus Wood Buffalo Park was created to provide a sanctuary for the last remaining wild herd of bison at large on the continent. Probably they were all of the northern type, known among Indians as forest or wood buffalo bulls of the prairie type.

When the Second World War broke out, Canada needed a

practice gunnery and bombing range in a hurry. The Wainwright Buffalo Park in Central Alberta was selected as a suitable site, whereupon buffalo ranging there were rounded up for redistribution elsewhere. Most animals were taken to Wood Buffalo Park and released in that faraway area to join the wild herds already there.

Wainwright animals were descendants of the Montana herd, originally captured from two Canadian territories near Stony Mountain in Manitoba and on the banks of the Milk River in southern Alberta. They were plains buffalo, but during their life at Wainwright had been exposed to many domestic cattle diseases. On this account naturalists were opposed to the plan of turning loose these animals among the then pure wild strain living in the Athabaskan territory. Almost twenty years have passed since Wainwright animals went north. During that interval, probably plains and wood buffalo strains have crossed and recrossed so often that it may be impossible to find an undiluted herd of wood buffalo today. We're too late.

Proper pig-housing pays

IT'S not necessary, as the old song went, to "keep the pig in the parlor," but hogs will appreciate and benefit from proper housing as well as any other animals.

And swine buildings and equipment can be designed to minimize the labor associated with hog production. Such buildings need not be elaborate, but it is important that they provide adequate accommodation for the pigs to be housed. At the Experimental Farm, Brandon, cheap but comfortable winter quarters for brood sows are provided by well-bedded cabins of single-ply lumber. Each cabin, 10 feet by 14 feet, provides sleeping accommodation for ten to twelve sows.

The best accommodation should be provided for sows with litters. This may take the form of a separate building or a partitioned-off portion of the general piggery. The temperature should be maintained at about 60 degrees and there should be facilities for providing additional heat for new born and suckling pigs.

Buildings for growing and fattening hogs should provide dry, well ventilated quarters, planned to simplify management and promote efficient production. A catalogue of plans of Swine Housing and Equipment, prepared by the Canadian Farm Building Plan Service, has recently been published. This catalogue will be available for distribution. Copies can be obtained by writing to the Experimental Farm or to your local Agricultural Representative. Catalogues of plans of housing and equipment for beef cattle, dairy cattle and sheep are also available.

Calf vaccination best

"GET them young," is as good advice with calves as with anything else, according to Dr. Victor Senior, veterinary pathologist with the Saskatchewan Department of Agriculture. Calfhood vaccination, he states, is almost 100 per cent effective in controlling Bang's disease.

Heavy economic losses can be suffered in a cattle herd through contagious abortion. Dr. Senior says the entire calf crop can be lost through Bang's disease with heifers calving for the first time. In addition, about one-quarter of these heifers will become sterile. A third economic loss is the sharply reduced milk production due to Bang's disease.

Bang's disease can be in a herd a long time without showing itself; it might be in a herd 12 months before any cows abort. In addition, cows which give birth to healthy calves might be disease carriers. Unaffected themselves, they infect others with the disease.

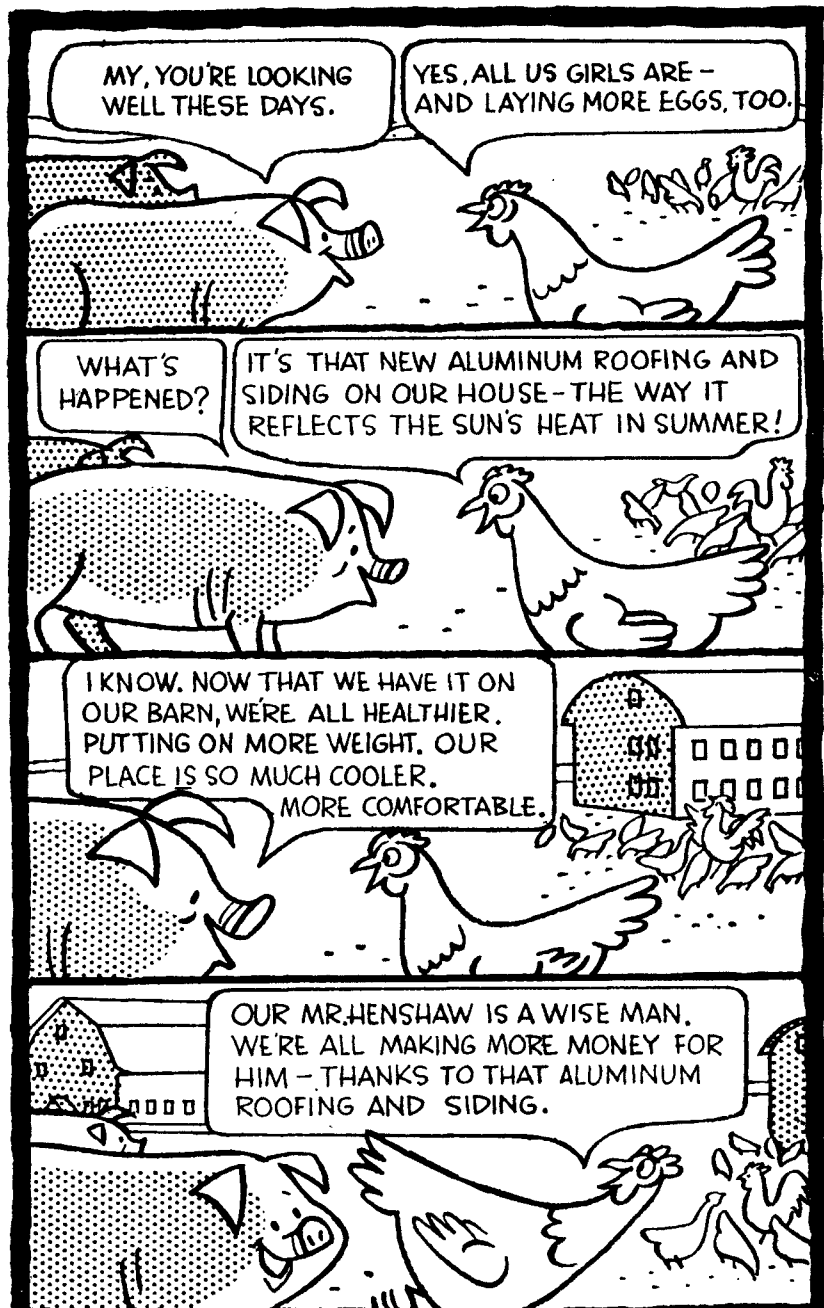
Dr. Senior says all heifers introduced into a herd should be vaccinated to prevent Bang's from being introduced.

The calfhood vaccination program of the Saskatchewan Department of Agriculture assists in protecting heifers against Bang's disease. Farmers pay only 75 cents per head for the first 10 calves, no more than \$7.50 altogether. All other costs are paid by the Department of Agriculture. No matter how many calves are vaccinated, the individual farmer pays no more than \$7.50.

For further information consult your local agricultural representative or write the Veterinary Division, Saskatchewan Department of Agriculture in Regina.

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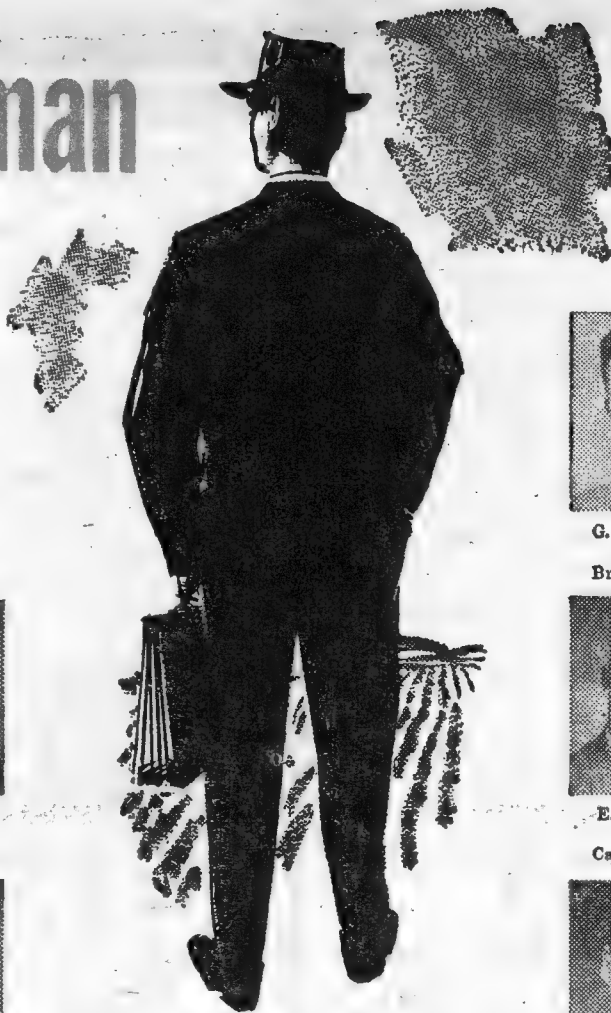
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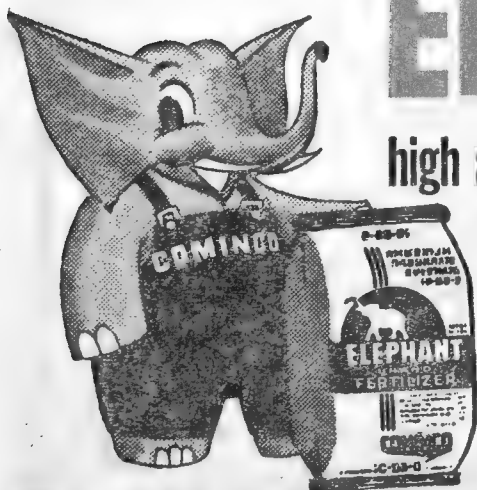
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THIRTY-SIX mink were donated by Alberta mink breeders from Edmonton and Calgary districts to the Ontario Veterinary College at Guelph. The mink were needed in further study of Virus Enteritis, which has affected mink for a number of years; a mink disease of which Alberta is still free.

Fat cattle business

THE open-auction system of marketing is being threatened in some parts of the U.S. by the big integrated feeding firms.

The U.S. Department of Agriculture states that in the 11 Western Range States several lots feed from 10,000 to 30,000 cattle at a time. Over nine-tenths of the cattle from these feedlots are sold direct to packers without going through any marketing agency. The lots are variously owned or operated by packers themselves, or by chain stores or by individuals.

Cattle feeding is a rapidly growing business in the U.S. west and is now spreading to the southern states. One Louisiana feedlot has a layout capable of feeding 26,000 head of cattle at a time. It plans to buy 500 feeders and sell off 500 fat cattle every week.

Is grit for the birds?

POULTRY feeds are commonly supplemented with insoluble grit but its value has not been definitely established. Although grit feeding may be beneficial under certain conditions, experimental evidence hardly justifies its use in a chick starter ration or in cases where oyster shells make up part of the ration. Oyster shells apparently supply adequate grinding facilities before they go into solution.

At the Experimental Farm, Brandon tests were conducted to determine the value of grit in chick starter rations varying in fibre content and coarseness of grind. The free-choice feeding of grit failed to improve weight gains or feed efficiency of any of the rations fed.

In two experiments with laying hens, insoluble grit was fed in conjunction with the all-mash, and, the mash-grain systems of feeding. In addition, one-half of the birds on each of the feeding systems were fed oyster shells. Regardless of the ration fed or of the inclusion of oyster shells, insoluble grit had no effect on egg production, egg shell thickness, or, the pounds of feed required to produce a dozen eggs. However, this study showed that some of the grit fed during the growing period was retained throughout the laying year. Consequently, it can not be concluded that grit is not required by laying hens but the experiments indicate that if grit is fed during the rearing period there would be no additional benefit in its use during the laying period.

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Weed threats

WEED control is a year-round job. This becomes quite obvious when one sees a farmer hauling uncleaned grain by an open truck. To start with, he could pay for an extra tarpaulin in no time with the amount of grain he loses. But more important still than his loss of cash, is the amount of weeds that are seeded to bring headaches and losses to others.

Once the grain has been cleaned, the disposal of screenings may be a problem, but if they are allowed through carelessness to start new stands of weeds in fields, feedlots or along roadsides, then the problem may get out of hand.

Wind may often scatter screenings that are being fed to livestock, so the law states that it is illegal to feed screenings unless they are fed in an enclosed feedlot approved by a weed inspector.

Fallow methods most important

EXPERIMENTAL work has shown the importance of stubble and straw (trash) in a wind erosion control program. Experience has demonstrated the usefulness of trash on farms.

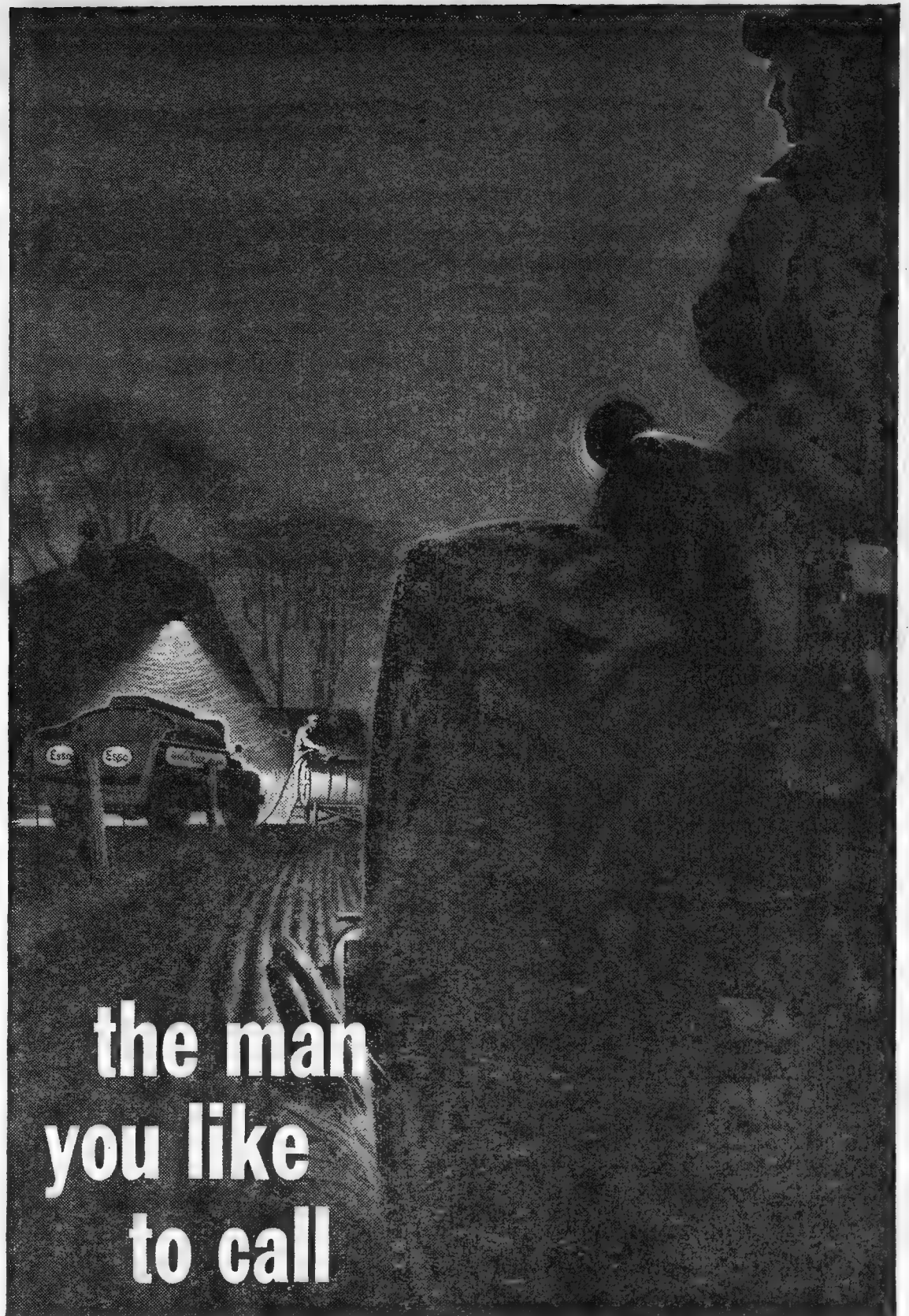
Some farmers have occasionally regarded trash as a nuisance in summerfallow operations. One tillage operation with a disk type tillage machine can very effectively reduce the quantity of trash so that it can readily be handled with other tillage machines. On other occasions the quantity of trash was such that one operation with a disk type machine buried all the trash.

In 1956 and 1957 the wheat crops on summerfallow at the Swift Current Experimental Farm produced upwards of 1,600 pounds of trash per acre. In spite of this there was considerable soil drifting in the spring of 1957 and again in 1958.

In 1958 the wheat crops on summerfallow at the Swift Current Experimental Farm produced approximately 900 pounds of trash per acre. This is just over one-half the quantity of trash produced in the previous two years. This presents a severe challenge to a wind erosion control program, throughout Southwestern Saskatchewan and many of the wheat producing areas in Western Canada.

Careful planning as to sequence of operations with subsurface tillage machinery such as the blade cultivator or the heavy duty cultivator and the rod weeder will be required to retain maximum quantities of trash.

With the limited amount of stubble and straw available for maintaining a trash cover, it is imperative that every precaution be taken to retain it. Otherwise, soil drifting could reach unmanageable proportions.



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ALWAYS LOOK TO IMPERIAL FOR THE BEST

A. D. JACKSON (Bert to his friends) has his own opinions about hen's bodies and their happiness, and he claims to have ample proof in his own 2,000-hen Premier Poultry Farm operation which supplies much of the egg market of Meadow Lake in Northern Saskatchewan.

"Caged birds can eat and drink without being molested by others. Don't forget, hens have a vicious social system — the peck order. Some unfortunate birds can't eat or drink until all are satisfied.

"Cages do away with the peck order," Mr. Jackson says. "No fighting disrupts production while the peck order is being established."

Even if hens were not happier in laying cages, Mr. Jackson knows he is happier having them there. Laying cages, he believes, make for cleaner, higher-quality eggs, more efficient feeding and culling. He lists eight reasons why the cage system makes him more money.

"Even a beginner in the poultry business can cull effectively with birds confined in cages," the lanky Meadow Lake poultryman says. A sick bird running loose will be ailing a long time before she is noticed. Mean-

Society and The Hen

Are hens happier in laying cages or running free in the henhouse?

They're happier, according to A. D. Jackson

while she's stopped laying but continues to eat. She's unprofitable.

"In a cage, ailing birds can be spotted and culled immediately."

By advancing a clothespin along the squares of the wire cage, the Jacksons keep daily track of how many eggs a bird has laid. Every time the hen lays an egg her clothespin is moved along another square. Poor layers can then be picked much more accurately and with less trouble than examining each bird.

Cage-lain eggs are quality eggs. After being laid, they fall onto the wire mesh floor and roll gently down into a gathering trough with little chance of being dirtied. Surrounded by wire mesh, they are fully exposed to air and cool quickly.

Mr. Jackson says his clean, cool eggs generally get grade "A". The difference between grade "B" and "A" to Jackson

is about 14 cents. If a hen lays 15 dozen eggs a year, the difference is \$2.10 per bird. Quality may well be paying Premier Poultry Farm up to an extra \$4,200 yearly.

The feed caged birds eat can be completely controlled. They are unable to eat anything which will detract from egg quality. In addition, disease can be controlled since sick birds only contact their immediate neighbors. Before disease spreads too far, carriers can be removed. Cages make no difference with airborne diseases, however.

"Another thing I like about cages," Mr. Jackson says, "there is less broodiness. Broody hens can be spotted and stopped much more easily. Since broodiness tends to defeat egg production, preventing it makes the enterprise more profitable."

He also says the cages make it easier to stop hens from eating their own eggs. Since they

can not get at others' eggs, they can only eat their own. A small pile of shells beneath the cage is all the clue Mr. Jackson needs to debeak the egg eater.

Finally, Mr. Jackson finds there is almost a complete lack of parasites among his caged birds. Lice are not able to crawl up to the suspended cages.

In addition to all these gains, the poultryman feels his cage set-up has a good psychological effect on customers. Many people from Meadow Lake drop in to buy chickens from Mr. Jackson. Impressed by the cleanliness of his operation, they reach for the egg carton marked "Premier Poultry Farm" when shopping in Meadow Lake stores.

The Jackson business is based on a quality product and good service. He candles and grades his own eggs, then sells them to stores in his own distinctive carton. Meadow Lake housewives do not just buy eggs. They buy Premier Poultry eggs guaranteed for quality.

Demand for these eggs has grown so that the enterprise at present is unable to fully meet it. "We like Jackson's eggs very much," one Meadow Lake storekeeper said, "but unfortunately orders from his older customers keep him from supplying us."

Mr. Jackson finds a second source of income selling culled hens to stores, cafes and homes in Meadow Lake. He has facilities for killing and plucking. Since he is located on the town's outskirts, he is willing to make personal deliveries, something he feels has largely added to the enterprise's success.

Biggest disadvantage of cage laying is the extra investment. Cages cost \$2.50 each and Jackson has invested \$5,000 to cage his 2,000 birds. Raising them on the floor would call for an investment of around \$1,800 for feeders, watering fountains, community nests, roosts and dropping pits.

Is the extra investment of \$3,200 worth it?

Some poultry authorities say caged birds need about two square feet of space compared to 3½ square feet when running loose on the floor. In a large operation, the extra investment for cages might well be less than the extra investment needed for housing if birds were to be free on the floor.

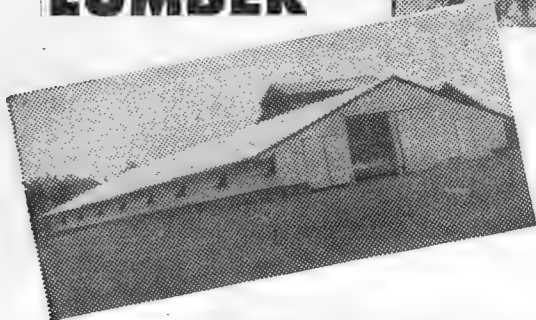
If experiments now going on prove that properly-managed hens only need two square feet floor space, then the advantage of cages may be greatly reduced. Until then, the controversy of cage versus floor will continue to rage. But Mr. Jackson is satisfied in his own mind that cages are best.



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A DIVISION OF DOMINION TAR & CHEMICAL COMPANY, LIMITED

THE CNR states, that in the last 30 years it has brought out to Western Canada more than a quarter of a million settlers. In the past 3 years the railway has settled over 70,000 families on 11 million acres.

DISTRIBUTION OF THE IMPORTANT VARIETIES OF BARLEY SEEDED IN WESTERN CANADA IN 1958

MAP INDICATES WHERE EACH VARIETY IS DOMINANT

COMPILED AND CHARTED BY

SEARLE GRAIN COMPANY LIMITED

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SASKATCHEWAN

MANITOBA

MONTCALM

PARKLAND

OLLI

O.A.C. 21

VANTAGE

COMPANA

HANNCHEN

NEWAL



Barley Varieties, 1958

THE three most commonly grown varieties of barley (Montcalm, Parkland and Olli) now occupy almost two-thirds of the total acreage seeded, according to the 1958 survey conducted by the Searle Grain Co.

The percentage of acreage occupied by the leading varieties in Western Canada is as follows: Montcalm, 26.7% ; Park-

land, 19.8% ; Olli, 15.7% ; Com-
pana, 9.0% ; Hannchen, 6.3% ;
O.A.C. 21, 5.7%, and Vantage,
5.3%.

In Alberta, Olli leads, occupying 35% ; in Saskatchewan, Montcalm leads, occupying 40.9%, and in Manitoba, Parkland is predominant, occupying 48.4% of the barley acreage.

The significant changes in acreage between 1957 and 1958 are the increase in Compana in Alberta which now exceeds that of Montcalm ; the substantial increase in Parkland acreage in Saskatchewan, and the large increase in the acreage of Parkland in Manitoba, with a corresponding decrease in that sown to Montcalm.

Largest wool clip

THE world's largest wool clip in 1957 was achieved by an Argentine sheepman. He clipped an average of over ten pounds to the fleece, and his total production was 531 tons of wool from his flock of 103,000 sheep.



EXPORT "A"
FILTER TIP
CIGARETTES



THE WAGNER TRACTOR IS SOLVING THE PROFIT PROBLEM !

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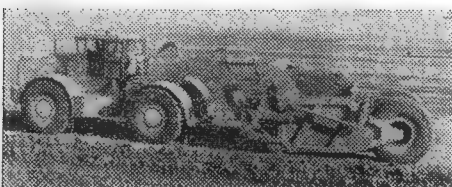
WAGNER POW-R-FLEX HINGED COUPLING



Twist and turn.



Wheels always track.



J. C. and D. J. Cordes, Tracy, Calif., land leveling with Wagner and Murray scraper.

The "COST-PRICE SQUEEZE," is the most talked subject today. But, the WAGNER TRACTOR is solving the problem! WAGNERS are rapidly replacing obsolete costly equipment because of lower operating costs... great fuel savings... minimum in down-time and service time... and in overall maintenance costs! Owners are declaring from 20% to 50% more work on both small and large acreages than with crawler type tractors.

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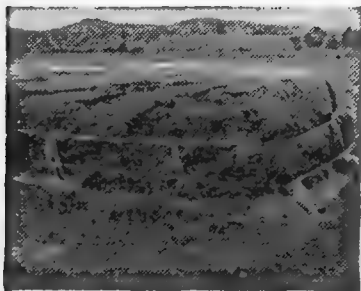


Seed men from across the country met in Ottawa last month to consider aspects of forage seeds in the farming economy. They were members of the Co-ordinating Committee of the Forage Seed Project, and their discussions centered around forage seed standards, the allocation of foundation stock, and general production problems.

Seated, left to right, are W. L. Shannon, manager of the Canadian Seed Growers' Association; Joe Murray, Solgirth, Man.; A. H. Martin, Ontario Department of Agriculture; Art Wilson, Alberta Dept. of Agriculture; Arthur Dumais, chief of seed section, CDA; Howard R. Parnell, CDA; Miss Helen Baldwin, CDA; Roy E. McKenzie, Saskatchewan Dept. of Agriculture; George Gilbert, CDA; Andre Auger, Quebec Dept. of Agri. Standing: Barry Bain, Canadian Seed Sales Ltd.; Dr. T. M. Stevenson, CDA; T. Szego, Hogg and Lytle Seed Co.; Professor Emile Lodds, president of CSGA; Paul Legault, CDA.



Build a greenhouse for just one-tenth the usual cost with polythene film



Low-cost silos, too! Black polythene film is ideal as a cover for trench silos and a cap for conventional silos. It retains moisture, excludes oxygen. Write C-I-L, P.O. Box 10, Montreal, for plans of a 10' x 7' greenhouse.

Yes, one-tenth the cost of a glass house. Here's why: a greenhouse of polythene film needs no foundation or sidewalls... requires only a light, cheap framework... can be built with unskilled labor. And the polythene film—usually replaced yearly—costs only 1¢ a square foot. Tobacco, vegetable and flower growers have discovered that polythene greenhouses have operating advantages too—better moisture retention by day, less heat loss at night.

Polythene film has a multitude of uses on any farm: as a liner to stop seepage from ponds, as temporary storm windows on out-buildings, as tarpaulins for machinery and materials stored out of doors. Black polythene film is used for mulching row crops.

Polythene film is available in rolls of 500 and 1,500 sq. ft. in various widths and gauges, from hardware and building supply dealers.

C-I-L Polythene

Canadian Industries Limited supplies polythene resin to film manufacturers.

Date to remember

THE 1959 Annual Meeting of The Canadian Seed Growers' Association, Inc., will be held on June 17, 18 and 19, at the University of Saskatchewan, Saskatoon, Sask.

A reminder -

WEED control does not end with the appearance of snow. It is a year-round program, and, to be successful, requires careful planning. Clean, healthy seed means better weed control. Many municipal plants have reduced rates for winter cleaning, so make arrangements now to have your seed properly cleaned. This is also the time to arrange for new seed if yours is not of good quality.

On potato harvesting

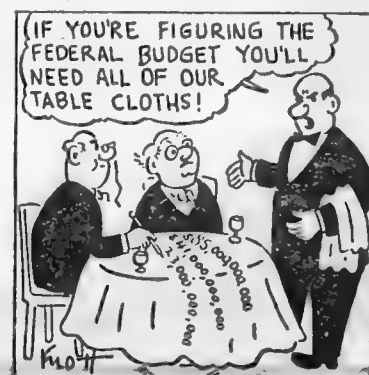
MR. W. H. CASHMORE, director of the National Institute of Agricultural Engineering, England, told the Farmers' Club recently that one way of attacking potato harvesting by machine was to breed potatoes which could be lifted by their own tops with the tubers still attached — and then strip off the potatoes.

Another idea being considered was two-stage harvesting, in which the potatoes were lifted by a two-row elevator lifter, windrowed, and then covered with a thin layer of soil. It was thought that when the potatoes were collected later with an elevator lifter, some of the clods would disintegrate and the skins would have hardened and be less vulnerable to damage.

Rust-resistant pastry wheat

IN plant breeding, removal of the limiting factor becomes the most important objective. Year after year, growers of soft white spring wheat in southern Alberta have suffered from rust-damaged crops. Except for its limiting factor of rust susceptibility, the commonly-grown Lemhi was a good wheat.

Back in 1950, Dr. Unrau, Prof. of Soil Science, at University of Alberta, and his associates started a breeding program towards production of a variety as suitable as Lemhi but without its lack of resistance. Now, in time for spring seeding, 40,000 bushels of the new variety Kenhi will be available. Still limited in amount, the seed will be distributed for contract production by the milling companies this year.



Warm pigs

PIGS don't grow an extra coat of hair. Indoor dampness and cold hits them hard, first bringing on colds and then, by weakening the system, more serious complications. Turning on a little extra heat, having good ventilation and supplying extra bedding will quickly put young and older pigs at ease. And comfortable pigs make better gains.

Tenants to owners

LAND reform seems to be a continuous process. A 3,926-acre estate in Warwickshire, England, which was in the possession of the Willoughby de Broke family for over four centuries, has been sold to a specially formed syndicate of eleven tenant farmers on the estate. The sale took place by auction. The estate was sold as one lot—14 farms, 178 acres of woodland and coverts, with sporting and fishing rights. As soon as technicalities were completed, the syndicate had intended to disband, with each tenant becoming the freehold owner of the farm he occupies.

Glassers disease in swine

CLASSERS disease in swine has become much more prevalent in Alberta during the last two years. The infection appears to be due to a building up process rather than as the result of an infected animal having been brought into the herd. There is, however, evidence that carrier animals exist and infected sows and gilts may transmit the disease to their litters. Where the disease is present, healthy litters begin to fail badly at two to three weeks of age, advises Dr. J. G. O'Donoghue, Alberta Veterinary Services Branch. Other symptoms include coughing and running at the nose. Some animals may develop enlarged joints. Deaths may occur, but secondary infections such as pneumonia or scouring are usually responsible.

Terramycin and Polyotic are highly effective but treatment of an infected group of pigs will not eliminate the problem. The administration of these drugs either in water, creep feeds or to individual animals when they are from two to three weeks old seems to be beneficial.

Where the disease is a continuing problem some type of isolated farrowing is important.

This isolation procedure will be easier in the summer as pasture farrowing will facilitate the programme. The disease will appear in certain litters and the sow or gilt should be culled as she may be a potential spreader. Nursing pigs should not be in contact with growing hogs that may be infected.

Sanitary farrowing conditions and good nutrition cannot be over emphasized. The nursing pigs should have plenty of water and creep feeds available at all times.

With this disease a veterinarian should be consulted as he will be able to outline a satisfactory control and elimination programme to meet the individual situation.

DRAINAGE and water control in Manitoba will soon come under one authority within the department of agriculture. J. A. Griffiths, formerly assistant deputy minister of public works, will be director of the new authority within the department of agriculture.

The promotion of Mr. Griffiths to the new post as director of land conservation and water control will place him in charge of all the various aspects of drainage and water control within the province.

Legislation will be brought in at the coming session to combine the present seven acts dealing with water control under the one head.

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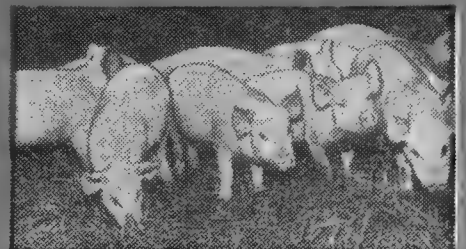
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4-H member Carol Strudwick knows the value of "MIRACLE" CALF STARTER

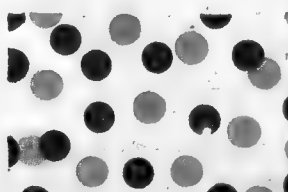


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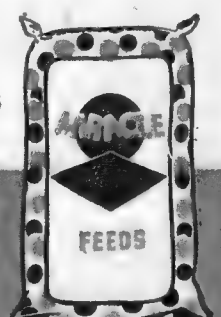


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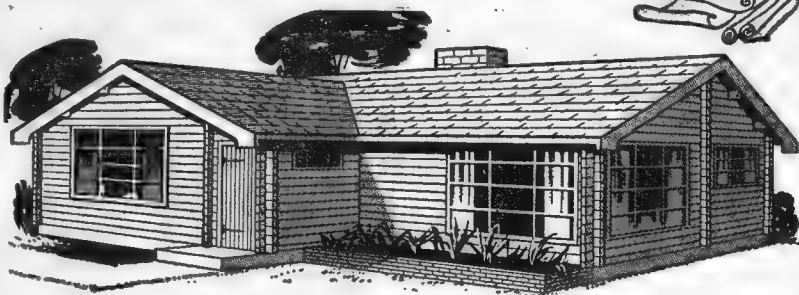


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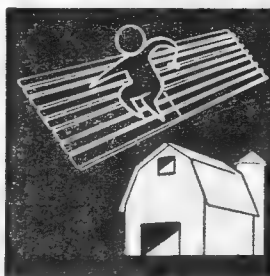
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THERE are few animals, plants or insects that escape disease — even honeybees are no exception.

SAFFLOWER production, extensive in southern Alberta for the first time in 1957, is increasing rapidly. It increased to 20,000 acres in 1958, and southern Saskatchewan had about 10,000 acres.

THE first official history of the Aberdeen-Angus breed in the British Isles in the last 50 years has recently been published by the Aberdeen-Angus Society, Aberdeen, Scotland.

AN aerial survey of part of Manitoba's barren land caribou herd shows the largest calf crop in recent years.

THE Manitoba Government is participating in an international study of waterfowl damage to crops. Work in this field will be carried on internationally until it is hoped, the problem is solved to everyone's satisfaction.

TO stop a file from clogging when working on brass, copper, aluminum or other soft metals rub chalk on it before using. To clean, just tap it on the bench.

FURTHER seed supplies of the new Rambler alfalfa are being made available to Saskatchewan farmers under provisions of the forage crop program.

PLACING a whole orange in a goose, back of the dressing, before sewing up for roasting (a cook says) absorbs the excess grease, besides giving a nice flavor to stuffing and meat.

TOTAL hog production in the U.S. in 1959 is expected to top 100,000,000 for the fourth time since 1951. Only in 1942 and 1943 has production been that high, previously.

IN 1958 Manitoba 4-H Sugar Beet Clubs produced beets enough to yield just under a million pounds of sugar.

CANADA'S productive forests cover some 900,000 square miles.

PULP is made by crushing wood on grindstones, or by cooking it in chemicals in large kettles.

A GOOD carryover of grass is recognized as one of the most important range management practices; the next year's crop is vigorous and healthy and pasture weeds seldom become established.

RECORDS exist of cows being milked as long ago as 9,000 B.C., and Hippocrates was recommending milk as a medicine 500 years before Christ.

IS Texas the cattle state? U.S. figures show that Iowa is the leading state in beef cattle per square mile. Nebraska, Illinois, Kansas, Missouri, South Dakota and Oklahoma follow in that order.

EVERY mile of modern highway removes from 30 to 50 acres of land from other use.

THE most valuable resource of almost every nation is its soil. It is the soil which produces the lasting and essential wealth of the country.

A TOTAL of 2,001 ocean vessels were inspected by the Canada Plant Protection Division last year. 370 ships required fumigation or spraying.

IN the U.S. the equivalent of 3,000,000 bushels of corn are wasted each year; in the form of condemned hogs slaughtered under Federal inspection.

HONEYBEES increase yields and quality of many fruits and crops. Even where yields are not increased seed set is often made more even permitting harvest as much as two weeks earlier than without bees.

THE record for milk produced by a single cow is nearly eight times the national average.

THE three prairie provinces and Northern Ontario have formed a Port Association that embraces the interests of each in future use and benefits of the St. Lawrence Seaway.

SCIENTISTS at a British atom establishment are using irradiated pollen in breaking down breeding barriers between different plant species. They hope they may be able to produce cultivated plants which have the yield of the cultivated variety, and the disease-resisting qualities of the wild variety.

THE continuous centrifugal cream separator was invented by Dr. Gustav De Laval in 1878.

AGRONOMISTS are agreed that a cereal variety, once purified, will not deteriorate genetically even though the same seed is grown for many years.

THERE are no established markets in Canada for many special seed crops. Those planning to grow such crops should make sure they have an outlet before doing so.

EXPERIMENTS conducted over the past few years on farms at Wolseley, Viscount and Aberdeen, Sask., should this year show how much grass-legume crops in a rotation help improve tilth and fertility of the province's soils.

HOW old do cows get? In 1955 a cow at Pembroke, England, was 39 years old; had produced 30 calves, and milked until she was 37. At that time she was still "eating out with the herd," but was babied a little during the winters.

REGISTRATION at the University of Saskatchewan includes 186 in agriculture, including pre-veterinary science.

THE largest National Park in Canada is Jasper with a total area of 4,200 square miles.

"POULTRY HOUSES" for Manitoba is the name of the publication now available at the Manitoba Department of Agriculture.

BRITISH COLUMBIA'S Pacific Exhibition this year saw one hundred and fifty honey entries from all provinces at what experts term one of the best exhibits ever. All colors of honey from the very white clover honey of Alberta to the almost black, blueberry honey from Nova Scotia were on display.

1958 will likely go down in the history of the dairy industry as Canada's greatest, to date, in the increase and consumption of milk production.

LAND experts state that half the land area of the prairie provinces can pay no profit except through crops of timber.

THE Athabasca oil sands formation was first recorded by a fur-trader explorer, Peter Pond, in 1788. They are now reckoned as the largest potential reserve of oil known to man.

THIS is a wet country compared to Death Valley, California, which has an average rainfall of 1.7 inches per year. No moisture of any kind was registered, at one period, for 404 days.

A NATIONAL program for the promotion of ducklings is being proposed in the United States.

100,000,000 Chinese have not suffered from food surpluses during the last 100 years; authorities estimate that that many have starved to death in the last century.

THE Farmer's Digest offers this advice: Live today as though you might die tomorrow; farm today as though you were going to live forever.

CHEESE made from raw milk takes from one to two years to develop its full flavor. This storage, of course, adds to the cost and accounts for the higher price of old Cheddar. Six to eight months are required if the cheese is made from pasteurized milk.

IN a test at the University of Illinois, in every case, oats in the ration fed to 100-lb. pigs slowed gains and increased the amount of feed needed to put on the next 100 lbs.

SOMEONE has figured out that one pair of pigs, with perfect conditions and results, could have 6½ million offspring in 10 years.

EXPERTS say that between 1914 and 1939 the world probably lost more soil through erosion than in any other period of history. One states that the U.S.A. loses 3,000,000,000 tons of soil by erosion annually.

WHILE Holland has practically monopolized the tulip bulb industry, the tulip is not a native Dutch flower, and it was not until 1580 that the Dutch had even seen a tulip. It is a native of Turkey.

COWBOYS at the 1959 Calgary Stampede will be competing for the biggest cash purse ever offered for a six-day stampede in North America; a total of nearly \$68,000.00.

AN Idaho-developed white spring barley, Gem, has passed food standard tests of Japan and is in demand in that country where it is pearled and mixed with rice.

ABOUT 100 Lacombe boars and 30 breeding groups will be available (by draw) to Canadian breeders this year. Official application forms may be obtained from the Lacombe Experimental Farm, Lacombe, Alta. April 11th is the deadline for applications.

ALTHOUGH seven new certified brucellosis areas were recently declared in Canada none were on the prairies.

ANOTHER export outlet for western cattle heading south has been established. A quarantine station is

being built on the Manitoba-North Dakota border along with a U.S. customs office. The location is near the International Peace Garden.

THEY'VE found a new use for plastic in the fencing business. A new plastic is being introduced that can be either screwed or nailed to the fence and offers good insulation. The moulded one-piece fastener is said to have the advantage of permitting the wire to be simply slipped on rather than needing threading.

ALBERTA still produces a third of the nation's sheep. With some 387,000 head on the first of last De-

cember, Alberta led all other provinces. The total number of sheep on Canadian farms was 1,140,600 head.

If an operation is performed soon enough, about ninety per cent of calves suffering from urinary calculi make a good recovery. This ailment in calves is still prevalent in the Lethbridge district of Alberta.

One stockman recently operated on 12 steer calves in a single day.

A READER tells us that a sign in his dry cleaner's window reads: Are your clothes becoming to you, or should they be coming to us?"

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WEIGHBAND

Proved in use by thousands of stockmen. Weighs both cattle and hogs. Put a Weighband around the girth, pull taut and read off the weight.



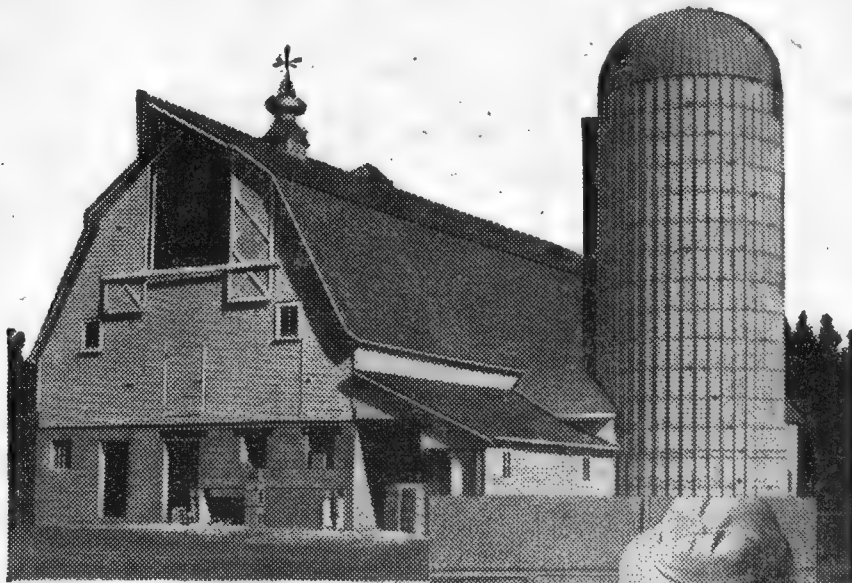
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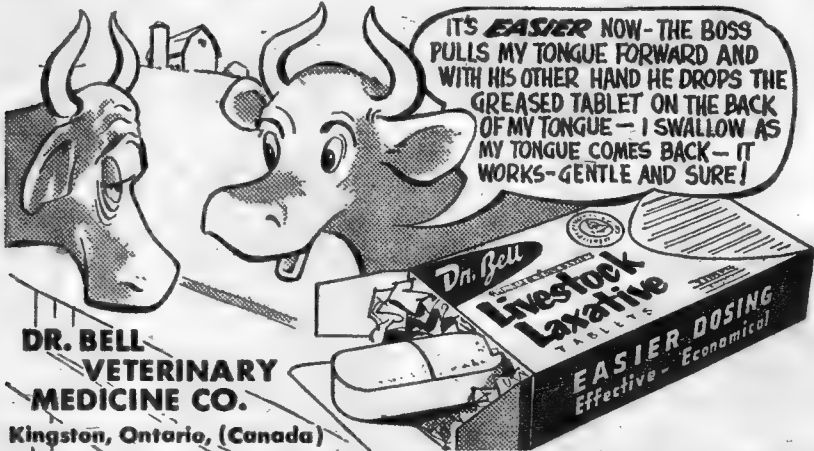
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Beet top increases milk

SUGAR beet tops make good cow feed. Tests at Michigan State Agricultural Station showed an increase in milk production of seven pounds, each, per day with dairy cows fed beet tops over animals fed medium quality hay.

Right choice important

FORAGE crop variety recommendations are important in planning for next year's operations. The variety you select and the seed you buy may make the difference between success or failure. More likely it will be the difference between a small and a satisfactory return for your effort.



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MODELS FOR EVERY FARM AND TRACTOR 6' TO 35'

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GLENCOE GIVES BETTER TRASH CLEARANCE. Glencoe, and only Glencoe, Chisel Plow design has the unique combination of short and long shanks on an unusually rugged "battleship frame" of much greater front-to-rear depth than ordinary plows. More distance between each following shank and scientifically staggered placement of shanks give Glencoe plows their remarkably better trash clearance and freedom from "plugging" or "clogging". Notice how trash seems to flow in between the shanks of a Glencoe Plow (Fig. 1) in contrast to action in the ordinary plow (Fig. 2).

"BATTLESHIP" FRAME. Glencoe high tensile steel frame members give tremendous strength. Tongues are one-piece H-beams, running clear through the machine, solidly anchored and braced against twisting. Their underframe mounting is an exclusive GLENCOE feature.

FAST CLEARANCE OF OBSTACLES. Special spring and shank arrangement gives fast, trouble-free clearance of obstacles, and the longest spring in the industry allows shanks to "ride up" over rocks as high as 14". Glencoe's "Spring within a Spring" means more positive penetration — greater safety — it's standard equipment only with Glencoe.

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Farm and Ranch Photo Corner



Don't neglect the fascinating close-ups of the youngsters that "flash" pictures make possible. A little experience between light and dark can help you avoid overexposure in the centre and unwelcome shadows.

Shooting the Family Indoors

DOES your family picture record look as if you lived out-of-doors in spring, summer and fall, and simply hibernated any time you couldn't take outdoor snapshots?

Indoor picture taking is a snap indeed with synchronized flash. The simplest of modern-day cameras are equipped for this type of picture taking. You can buy a flash attachment which will fit right onto your camera to hold the bulb. The same release with which you open the camera's shutter will flash the bulb at just the right instant.

That's all there is to it. You shoot just as you would outdoors on a sunny afternoon. In one way it is even easier, the light from the flash bulb is always the same, while the sun isn't nearly so dependable.

The major difference between indoor and outdoor shooting is that you have to watch your distance more carefully. Flash lamps are very powerful for their size, but obviously there's

a limit to the area they can cover. You can determine the proper subject-camera distance by consulting the charts that are packed with your film or those on the flash bulb carton.

With flash on your camera you can take pictures wherever you wish, whenever you wish. You can follow your subject into any room of the house without fuss or bother. It makes picturing children especially easy, because some of the flash bulbs are very fast and will enable you to "stop" movement. For example, if you are picturing a four-year-old who decides to take off in the opposite direction, his unexpected movement won't cause a blur.

You can "flash" color pictures as well as black-and-white. Whether you are making full color transparencies for projection or colorful snapshots to mount in your album, there's a special type of film made for use with artificial light. However, if you want to take flash pictures and happen to have outdoor film

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These Heavy Duty Hydraulic Truck Hoists will do a better job for the farmer than any hoist costing twice as much. Fits all 1, 1½, 2, 2½, 3 and 4-ton trucks, with boxes 9' to 16' long. Easy to install. Heavy duty pump, tank and valve combination. Heavy duty cylinders and lever actions.

Model P80—8-10 ton—60" to 84" cab to axle, as illustrated	\$199.00
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Model E80—as above—with Electric Pump	209.00
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—for P.T.O.	
Model E90—as above—with Electric Pump	229.00
Model P100—12-15 ton—60" to 102" cab to axle, as illustrated	239.00
—for P.T.O.	
Model P120—as above—with channel iron upper sills	289.00
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How would it be possible to get such a master-piece of this without flash? Grandpa peels the apples while the little fellow asks: "why" and "how"? in a hundred different ways.

in your camera, you can go right ahead by using blue flash bulbs. These simulate the outdoor type of light.

If you are buying a new flash attachment, it is likely that you'll get a flash-guard with it. Those can also be purchased separately at little cost and have a two-fold use. Fashioned of plastic and looking much like a miniature toaster cover, they slip right over the reflector. One side is translucent for use when you want simply to guard against the chance that a flash bulb might shatter. This hap-

pens only once in a very long time, and it may never happen to you, but when you are taking close-ups of babies, the precaution is worth taking. The other side of the flashguard is frosted to diffuse or soften the light.

This discussion has been limited to flash-on-camera picture taking, which is the most popular type. However, there are many interesting variations in lighting to be gained by using extension flash. Your photographic dealer will be glad to tell you how it can be done with your particular camera.



One of the prime advantages of "flash" photography is that it permits you to "freeze" activity on the film. This lady can sit comfortably on her chair for some time, waiting for her little boy to relax and become natural. Then when he suddenly assumes a favorite expression . . . "click", and you have it forever.

Milk for foreign aid

CANADA recently shipped 7 million pounds of dry skimmed milk to countries in South America and the Middle East for relief feeding and the care of under-privileged children. The milk from surplus stock from our support program was part of a 30-million-pound allotment offered by Canada.

Fat shells

TESTS at the Central Experimental Farm in Ottawa do not bear out a theory that extra fat in the high-energy laying rations of hens results in thin-shelled eggs. No difference appeared in egg-thickness for hens being fed rations without fat from those being fed rations with up to six per cent fat.

Trend of the times

THE Columbine Poultry and Egg Farm, a new corporation, is erecting the first 40 x 212 ft. building in what is described as a future million-dollar egg factory to serve the Denver area.

The new firm is owned jointly

by J. A. Sharoff & Co., wholesale poultry and egg firm, and Mountain States Mixed Feed Co., both Denver firms.

It is reported that eventually there will be 300,000 layers on assembly line schedule with air-conditioning and complete automation. — Pacific Poultryman.

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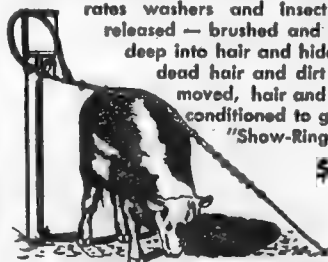
Automatic Equipment Mfg. Company, creators of time and labor-saving equipment for the farmer-stockman, were the first to introduce Cattle Oiler machines over thirty years ago. Both Sandhills and Stampede Oilers are fully automatic and equipped with positive oil control. Insecticide is released only as cattle rub and scratch. Our experience and know-how is your full guarantee.

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"Sandhills" ALL-STEEL OILER

Recommended for feeder cattle, long-haired cattle, northern cattle, and for dry lot use. Steel cable-washer rubbing element built to last a lifetime. Cattle entering oiler lift rubbing element which actuates pump and a measured amount of insecticide flows down on cable from supply tank. Washers on the cable act as a seal to hold oil; animals rubbing action separates washers and insecticide is released — brushed and combed deep into hair and hide. Loose dead hair and dirt are removed, hair and hide is conditioned to give that "Show-Ring" finish.

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Recommended for beef or dairy cattle, . . . thin-skinned—short-haired animals, and for use in lairage-pens. Cattle entering Oiler lift rubbing element which actuates pump and a measured amount of insecticide flows down onto rope. Rope soaks up all the oil. Oil is released as cattle rub, applying insecticide to animals hair and hide. Giant size marine rope rubbing element is rot and wear resistant. Oiler NOW available with heavy-duty steel guard pictured at right. Steel guard encasement adds "scratchability" priced extra at \$3.70 for single unit — \$7.25 double.



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For best results at lower cost, mix Hesskill Metholex with No. 2 fuel oil or petroleum distillate for use in cattle oilers. One gallon will take care of 50 to 100 cattle for several months . . . because it takes so little! Also mixes with water as a spray application. Safe for both dairy and beef cattle.

ORDER TODAY Sandhills oilers are fully automatic. Equipped with Auto-delivery pump. (Guaranteed leak-proof and fully adjustable). Oiler mounts to post, anywhere. Complete unit includes 5 gal. tank with mounting head, automatic pump and oil system, rubbing element and anchor chain.

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DEALERS AND FARM AGENTS WANTED



FARMERS and growers in the ENGLISH county of Dorset are now being warned by postcard of any attacks by PESTS OR DISEASES which threaten crops in their area. The postcards give brief details of how to fight threatened attacks, with a number of recommended treatments. This service, offered by a commercial firm, is based on weather reports and entomological information from research stations and chemical manufacturers.

Although ALASKA is a deficit milk-producing area, there are two DAIRY CO-OPERATIVES operating there. The Mananaska Valley Co-Op does about half its \$3,000,000 annual business in poultry and dairy products. The Juneau Dairy Co-Op, exclusively a dairy association, does a business of about \$200,000 annually.

ARTIFICIAL INSEMINATION of ONTARIO cattle increased by about six per cent last year. The number of cattle inseminated was a total of 357,342.

A party of a hundred ENGLISH HOUSEWIVES were re-

cently invited to visit farms in the country and question the men who actually produce the food. It is one of a series of meetings to discuss food problems from the point of view of CONSUMER AND PRODUCER. The meetings have been described as "staggeringly successful."

Scientists in ISRAEL have uncovered evidence that the ancient Israelites developed a complicated system of DESERT farming deep in the NEGEV DESERT. Ancient cisterns, drainage and the remains of farm houses have been found 60 miles south of Beersheba. The period is identified as from 900 to 700 B.C. An ancient road has also been located which is mentioned frequently in the Old Testament.

SHORTHORN BREEDERS from more than ten countries will attend an international conference of the breed at PERTH, SCOTLAND, during the bull sales next February. The conference was called by the Scottish Shorthorn Breeders' Association at the suggestion of the AMERICAN ASSOCIATION.

ANGOLA, PORTUGUESE WEST AFRICA, has imported 22 head of SANTA GERT-RUDIS CATTLE from the UNITED STATES. The animals were bought by a large commercial cattle-raising co-operative, and will be used to both improve the local stock and to start a pure-bred herd.

INDIA'S COTTON crop this season is estimated as the second largest crop in the past ten years. Cotton acreage of 21,000,000 acres produced some 4,240,000 bales, most of which will be consumed at home, but some shipped to JAPAN.

A farm in ENGLAND has covered the yards next to its DEEP LITTER HOUSES with smooth stones about 1½ inches in diameter and laid a foot deep. Straw was found to be too costly and clinkers became clogged after about three years. The round stones last over seven years. The hens thrive on them; heavy showers of rain wash away the droppings, and the stones ensure good drainage.

According to a UNITED STATES Department of Agriculture report, the average yearly MEDICAL BILL for farm families increased from \$155 to \$235 in fourteen years. The fast pace of today's living might be catching up with the farmers.

Canada proposed that NATO set up FOOD STOCK PILES in EUROPE as a possible outlet for some surpluses. The UNITED STATES, however, has shown no enthusiasm for the idea.

FARMERS in BRITAIN SPENT \$800,000,000 last year on MACHINERY, FEEDING STUFFS, FERTILIZERS and OTHER PRODUCTS AND SERVICES. Labor cost \$308,000,000, rent and interest \$87,700,000. The sale of fat stock (\$457,000,000) was their main source of income. Milk and milk products came second (\$354,000,000), farm crops third (\$244,000,000), followed by eggs and poultry (\$204,000,000) and horticultural products (\$142,000,000).

CUBA, after losing a large part of her SUGAR market in the UNITED STATES, has turned to RUSSIA and CHINA, selling more than 100,000 tons of raw sugar to Russia and 57,000 tons to China in the first six months of the year. Production has also been sharply hit by the three-year revolution.

A BRITISH BOYS FOR BRITISH FARMS SCHEME spon-

sored by the Y.M.C.A., gives 600 boys a chance to work on the land every year. Since its start in 1952, 15,000 boys have been placed on British farms. The 15,000th boy was presented with a textbook on agriculture by the National Farmers' Union president.

An INTERNATIONAL ADVANCED COURSE on AGRICULTURAL VOCATIONAL TRAINING is taking place this fall, at ZURICH, SWITZERLAND.

Sponsored by the Food and Agriculture Organization and other international organizations, it is expected to be the only reliable way to study jointly the teaching and agricultural vocational training methods and programs adopted in the various countries.

By comparing experience, teaching staffs and specialists in vocational training will get a fresh outlook on their personal teaching problems to take back home to their own countries. The study sessions are planned for chiefs of services, school principals and teaching staffs of training schools for future farmers.

For the past two years the Government of INDIA has not had to buy any DOMESTIC WHEAT through its PRICE SUPPORT PROGRAM. The reason is that prices have been higher than the support level. Three years ago, the Government set up its price support scheme to stop a fall in wheat prices. At first the Government purchased some wheat but soon the price rose well beyond the guarantee. At one point the prices went so high that the Government became worried and actually initiated programs to bring prices down again.

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The 1957 FRENCH WHEAT CROP was larger than that produced in CANADA; 404,000,000 bushels as against 373,000,000.

A farm writer in ENGLAND passes on this hint (which may not be new to some readers) on TEACHING BABY PIGS TO DRINK. Put a two to four-pound weight in a baking tin and pour the sow's milk substitute over it. The pigs nuzzle and bite at the weight, start to taste the food, and soon learn to drink. The weight also prevents them overturning the tin.

The NEW ZEALAND Government is considering a plan to divert 10% of its milk output to calves. It is hoped this would make VEAL CALVES heavier for market, and reduce DAIRY EXPORTS by about 10%.

YUGOSLAVIA is importing more than \$6,600,000 worth of BREEDING STOCK for herd improvement. It plans to import 13,000 head of CATTLE, 8,000 HOGS, and 4,100 SHEEP.

INDIA is increasing its lead as the top CATTLE NATION. Late reports show a two-percent increase in the cattle population since 1951. However, the number of cows has been dropping and this could mean that cattle numbers might soon decrease.

One of the classes at the ROYAL WELSH AGRICULTURAL SHOW — not a common one in BRITAIN — was for farm men and women to erect a fence. A 30-foot length had to be completed in 2½ hours, with an oak post staked at each end, and not more than three stakes in between. All materials, including 30 feet of square mesh fencing and 65 feet of eight-gauge wire were supplied, and marks were given for method of erection, workmanship, and general efficiency of the finished fence.

For the first time since detailed records were started in 1933, SCOTLAND now has over 1,000,000 beef CATTLE.

Servicemen in the UNITED STATES armed forces certainly believe in their milk diet. According to the 1957 purchasing figures, the consumption of MILK AND MILK PRODUCTS for that year was ahead of other years and showed a 560,000,000 pint increase.

The CANADIAN GOVERNMENT is giving 3,000,000

pounds of DRY SKIMMED MILK to hungry women and children in other countries. Purchased under the agricultural prices support program at 17 cents per pound, the total cost will be \$5,100,000.

From now on the BELGIAN army is to be served with BUTTER not MARGARINE. This is to take advantage of the ample supplies of butter on hand, and producers are to be paid the difference between the price paid by the army and the regular market price.

The 1958 exports of LAND-RACE PIGS from BRITAIN have more than trebled what they were in previous years. Biggest market is CANADA, which even before the end of June had received 137 Landrace export certificates. Landraces were also sent this spring to AUSTRALIA (17), the UNITED STATES (10), ROMANIA (11), SPAIN (6), and JAMAICA (3).

A floating cattle ranch arrived on the west coast of the UNITED STATES this season with a thousand head of NEW ZEALAND CATTLE, and another ten shiploads of New Zealand cattle are being sent in an experiment to see how the shipments work out. This is the first time live cattle have been shipped to the American market from overseas.

The animals are quarantined for a month after arrival, but are fattened both en route and in quarantine.

RUSSIA has been able to more than double its MARGARINE output in the last six years, and increase fourfold the 1940 figure.

Calf Scours Treatment



A new and very effective remedy for diarrhea and scours in calves, colts and young pigs. Contains dihydrostreptomycin 200 mgms. per ounce, kaolin, potassium chloride and pectin with para-hydroxy benzoate as preservative.

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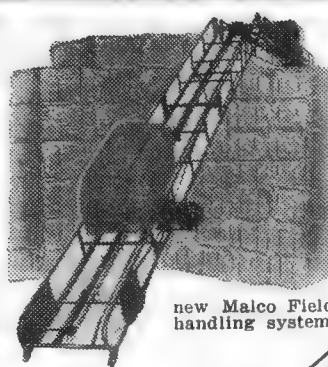
611 - 8th Avenue East
CALGARY, ALBERTA, CANADA

Research workers in BRITAIN'S National Vegetable Research Station have found that a condition known as "big vein" in LETTUCE — which cropped up in two parts of England last year — is transmitted through the soil by root sap from infected plants, and that soil in which an infected plant is grown will infect the next crop of lettuce.

THE TEASEL, a plant whose prickly head is used to raise the nap on fine cloths, is a SPECIALIZED CROP grown in parts of the WEST OF ENGLAND and can be cut only when the heads are dry. Wet weather delayed harvesting two months last fall, but the crop was saved because birds came and picked the seeds out of the heads, which prevented swelling, rotting, and the ruination of the crop.

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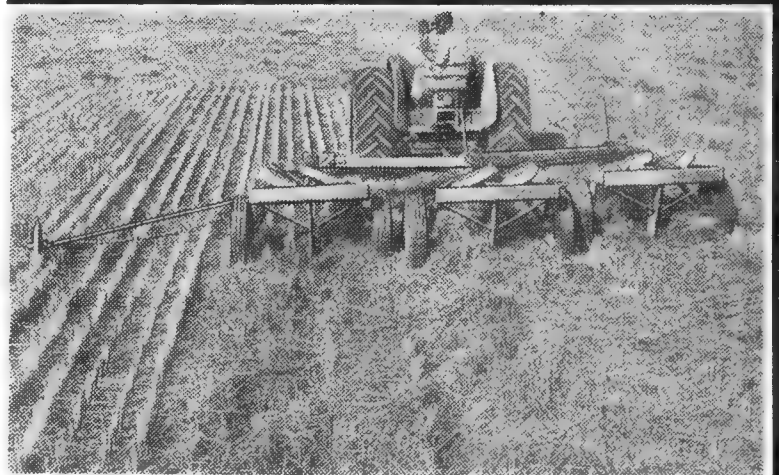
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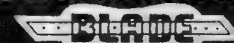
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The Lady OF THE HOUSE

Guest Contributor — EVELYN MORGAN

Your House and Mine

I HAVE been conducting a little survey on apples recently because my family use so many. I wanted to know if there were others like us. The question went about like this.

"Do your family ever get tired of apples?"

"Do they like them raw or cooked best?" I ask.

"Just about every way I can think to do them, and then some whole ones raw for between-meal snacks."

That is the most frequent reply. I think Canada has, in apples, one of the world's finest and most popular products.

When our breakfast includes a whole baked apple it seems like a Spnday breakfast.

I do make very frequent use

of my food colorings, but I think they are particularly good to dress up applesauce. My family like pale green, with a light mint flavor.

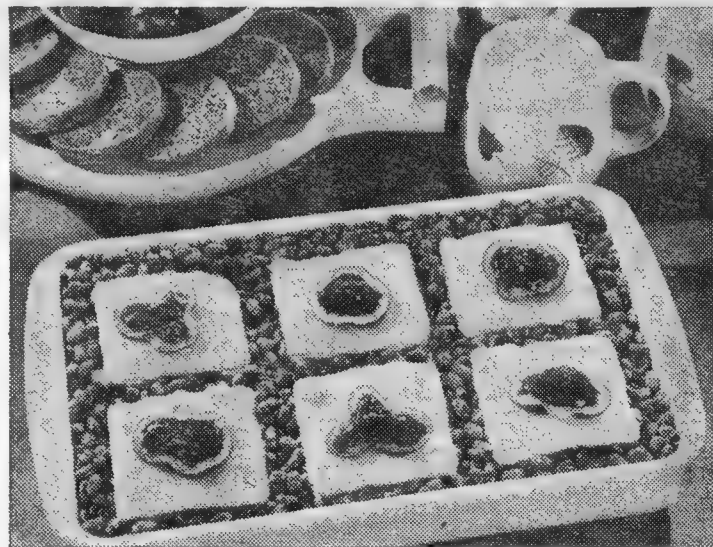
Pink applesauce with a dash of cinnamon is my choice. Both make fancy looking dessert.

I also like to color the crab-apple preserves I make into pies. Often my family wish to drink the juice from a quart of fruit, especially if they have a cold.

Then the remaining crabs I crush with a fork, color a fairly bright pink, and use them for a fruit pie.

It is the time of year when it seems more difficult to keep meals interesting.

Yesterday the only change I could think of was to roll the



Here's an Idea—Baked Beans Deluxe

Baked beans are popular winter fare. Baked Beans Deluxe are a delectable variation — quick to do, attractive to serve! And we are sure you'll find that the topping of cheese slices will bring this dish into the realm of family favorites.

Baked Beans
6 Cheddar cheese slices

Green pepper rings
Catsup

Prepare baked beans in a rectangular casserole. Top with cheese slices and green pepper rings filled with catsup, and return to the oven until the cheese melts.

buns in sugar, when I set them to rise. They look more tasty.

Another change for the stew is to add a tin of vegetable soup, and simmer for at least an hour before serving.

My favorite way to achieve variety is with the help of a plate of seeds I have growing on cotton batting. The seeds are parsley, onion, and watercress. They are kept saturated with water, and will grow to about three inches without additional soil food. Meantime, they are there for me to clip with my shears to use for dainty garnishes. The plate, thickly sown and growing, looks attractive enough for the dining table centre piece, so they are never "in the way".

And for a final word on cookery hints, I have heard that goose fat, as long as it has been refrigerated, and has not become rancid, can be used for chiffon cakes in place of the oil. Perhaps someone else knows more about this?

BORTCH

- 1 qt. beets, cooked and diced
- 2 cups beet water
- 2 cups beef stock
- 1 cup minced beef
- 1 cup good cream
- 1 egg
- Salt, pepper and dill

Simmer together the beets, meat, water, and beef stock for two hours, at least. Add the dill, sour cream and simmer a further half hour. When ready to serve, beat a whole egg and pour the hot soup over it to cook the egg and thicken the soup slightly. Add the salt and pepper to taste and serve. Yield: 8 generous servings.

This soup with toast is, for many people, sufficient for the whole meal. In any case lighter food should follow.

PICADILLY SALAD

I don know where this salad gets its name. Since all its ingredients are found in the house in winter I think WINTER SALAD a more suitable name. It is made as follows:

- 3 cups white beans, cooked
- 3 strips bacon, cooked crisp
- 1 large onion, cut in thin rings
- 1 cup shredded cabbage
- 2 apples, small cubes
- Salad dressing, about 1 cup

The beans should be cooked until they are just done, but not about to fall apart. Cut the onion rings in halves, and the bacon in small bits, and combine with the beans. Mix with one-half the salad dressing.

Combine the cabbage and apple and remaining dressing. Make a bed of it, and place on top the bean, bacon, onion mixture. Since this salad doesn't wilt, it can be made some time ahead of the meal. Yield: 8 servings. Serve with hot potato salad.

The children's school lunches are probably getting a little dull, too, so here are three recipes that might be new to some. All pack well and are easily made.

CHOCOLATE BARS

- 3 cups oatmeal
- 1/2 cup cocoa
- Vanilla
- Salt
- 2 cups white sugar
- 1/2 cup lard or butter
- 1/2 cup milk

Boil together the sugar, lard and milk for five minutes. Start timing it as soon as it boils good. Remove from the heat, and stir in the cocoa, oatmeal, vanilla and salt. Drop by spoonfuls onto a cookie sheet. To make them long instead of the usual round cookie, drop from the side of a tablespoon, not off the end. You have to work fast with these as

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they harden quickly after the oatmeal is added.

FRUIT BARS

- 1 cup shortening
- 1 cup brown sugar
- 2 eggs
- 3 cups flour
- 1 tsp. cream of tartar
- 1/2 tsp. soda
- 1 tbsp. hot water
- 1 tsp. vanilla

Blend the shortening and sugar thoroughly. It should be light and fluffy. Combine the flour and cream of tartar, and gradually add half of it to the first mixture. Then dissolve the soda in the hot water and stir into the batter. Add the rest of the flour. Then the two eggs, salt and vanilla. Knead into a roll, and chill. Make the filling as follows:

- 1/2 cup sugar
- 2 cups dried fruit, figs, raisins, dates, apricots or mince meat
- 1 1/2 cups water

Simmer gently until thick and cool.

Roll out the chilled cookie

dough and cut in about four-inch squares with a knife. Put a tsp. filling on and fold in half. Bake at 450° F. until light brown.

PINWHEEL COOKIES

Use the same dough as above, but when rolling out leave at least one-quarter inch thick. Spread on the mixture filling and roll up. Chill again thoroughly. Cut in slices as ice-box cookies and bake.

HOBBY TIME

One of my plant-loving neighbors puts every fruit seed — apple, lemon, orange and grapefruit — into her flower pots as they eat the fruit.

Quite a number of these grow. They do not all sprout she says, nor do those that start all survive. But I note that she gets quite a few transplanted to separate pots each spring and takes them to auction sales in her district.

She also slips her geraniums
(Continued on page 38)



Small cooks are important little people!

If you want to make a little girl feel really important when her next door friend comes give her some job to do in the kitchen that will make her feel like a bona-fide cook. The task may be a simple one such as cutting up dates or raisins for cookies, greasing the cake tin or cookie sheet, or pounding the slice of meat that you plan to use for Swiss Steak for dinner. But if the child is given the responsibility of doing the act you may be sure that she will make every effort to do it well. And when her next door friend comes over and wants her to play, she'll feel very important, indeed, when she tells her friend that she has to "finish fixing the meat for dinner first!" Wise mothers realize that if little girls have tasks like these when they are small they will be interested in food preparation and gradually learn much more about it until they are soon of great help in the home.

Tempting Sugar 'n' spice BUNS



Easy to make...
delicious piping hot!

Whether you serve them fresh from the oven for tea-time snacks, or toasted and generously buttered for breakfast, the whole family will cheer when you serve delicious, fragrant Sugar 'n' Spice Buns. They're easy to make, too, with Fleischmann's Active Dry Yeast...so when you bake at home, why not surprise your family with this sugar 'n' spice treat?

SUGAR 'N' SPICE BUNS

Makes 32 buns

Wash and dry

- 3/4 cup seedless raisins
- 3/4 cup currants

Scald

- 1 cup milk

Remove from heat and stir in

- 1/3 cup shortening
- 1/2 cup granulated sugar

Cool to lukewarm.

In the meantime, measure into a large bowl

- 1/2 cup lukewarm water
- 2 teaspoons granulated sugar

and stir until sugar is dissolved.

Sprinkle with contents of

- 2 envelopes Fleischmann's Active Dry Yeast

Let stand 10 minutes, THEN stir well.

Sift together 3 times

- 2 cups once-sifted all-purpose flour
- 1 1/2 teaspoons salt
- 2 teaspoons ground cinnamon
- 1/2 teaspoon grated nutmeg
- 1/4 teaspoon ground cloves

Stir the lukewarm milk mixture and

- 1 well-beaten egg

into the yeast mixture.

Stir in the sifted dry ingredients and beat until smooth and elastic. Stir in the fruits and beat well.

Work in

- 2 1/2 cups more (about) once-sifted all-purpose flour

Turn out on lightly-floured board and knead dough until smooth and elastic.

Place in a greased bowl and brush lightly with melted butter or margarine.

Cover and set dough in warm place, free from draft and let rise until doubled in bulk—about 1 1/2 hours. Punch down dough. Divide dough in half. Form each half of dough into a roll 16 inches long. Cut each roll into 16 pieces. Form into balls and place 16 balls in each of two greased 8-inch square cake pans. Brush liberally with melted butter or margarine.

Combine

- 1/2 cup granulated sugar
- 1 teaspoon ground cinnamon

and sprinkle buns with this mixture. Cover and let rise until a little more than doubled in bulk—about 1 1/4 hours. Bake in a moderate oven, 350°, 30 to 35 minutes.



Needs no refrigeration

Always active, fast rising

Keeps fresh for weeks

(Continued from page 37)

and takes small pots of them to sell. I know she doesn't make any fortune at it, but the tiny fruit trees sell for over a dollar, and the little geraniums for twenty-five cents. It all looks like nice pin money to me.

I have been a frequent geranium customer because mine have sometimes frozen in the winter.

I have a partially disabled elderly friend who has a pleasant hobby.

When her eyes tire of reading and knitting, she has a bag of chicken feathers, that she dips into and strips the centre part out of the feather. The soft curled up bit is tossed into a cardboard box. The hard quill piece she leaves in her aproned lap to be burned. The soft, down-like curls make pillows almost as soft as goose feathers.

It is remarkable how many she can fix up in a winter. Last winter she made six pillows. This year she is making gay cushions.

THE LAUNDRY

I notice the woman who never has any trouble with stubborn stains, has a pair of embroidery hoops hanging near her washer. She puts the hoops on the stain, to stretch the fibres tight, and pours boiling water through the stain. It is more convenient

than stretching the cloth over a bowl, and holding it, and less chance of being scalded.

She tells me that when she gets an oil stain on her dry, clean type clothes, she promptly rubs it with a little lighter fluid before the oil and dirt in it gets set.

BEAUTY TREATMENT

There isn't much time left for beauty treatments when summer comes. I am trying this simple method, that takes about five minutes per day.

Wash the face with a mild soap, working in a good lather for about three minutes. Rinse face, but do not dry. Work in cleansing cream. Put a towel over the head, and steam the face briefly. Wipe off the cream.

Put a teaspoon of boracic acid in cold water and splash on the face to close cleansed pores.

Boost for future farmers

AGRICULTURE students have been given another boost in Saskatchewan. 26 bursaries with a total value of \$3,900 have been presented to students in the School of Agriculture at the University of Saskatoon, by the Saskatchewan Wheat Pool.

There were 16 award winners in the first year of the two-year diploma course and ten winners in the second year. Each received a bursary worth \$150. Academic qualities were taken into consideration in making the awards.

Fifty per cent too much

"THE condition of your health ought to be more important than almost anything else to you." This quotation, which most recently appeared in "The Organized Farmer," is underlined by the fact that at least 50% of all sickness is not necessary and can be prevented. Everyone, and especially mothers and wives in whose sphere the health of the family largely falls, should be impressed with these rather startling facts:

Infant Mortality — Of 475,930 children born in Canada in 1957, 6,837 were stillborn, 14,517 died in their first year, 9,478 died in their first month; there are 13 countries with a better record in infant deaths than Canada.

Accidents — Killed three times as many children as did ALL infectious and contagious diseases; in order of importance they are highway traffic, home, drowning and fire.

Pasteurization — Raw milk often carries disease; from 45% to 50% of the milk consumed in Canada in one form or another is unpasteurized:

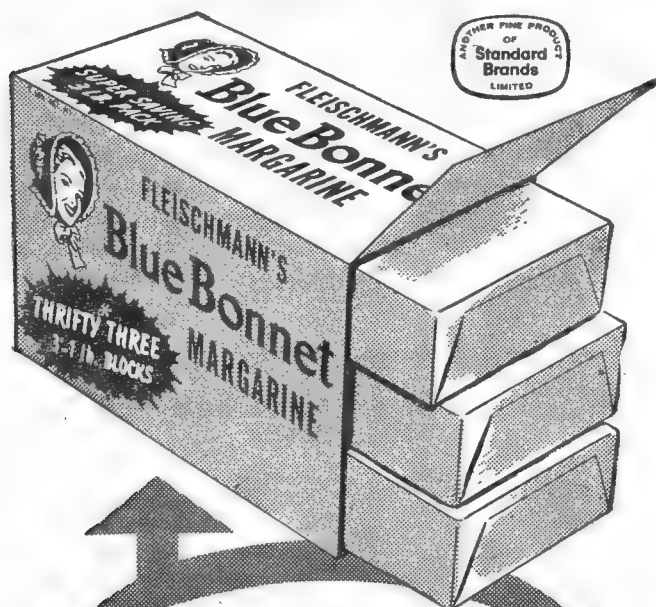
Alcoholism — One out of every fifty Canadian adults is an alcoholic; the number of alcoholics has doubled in ten years; there are only five countries with a worse rate of alcoholism than Canada.

Nutrition — Surveys have revealed that in this land of plenty less than one-third of those surveyed had a nourishing food intake; poverty was not a predominating factor.

Flouridation — Over 95% of the population of Canada is afflicted with diseases originating in the mouth and diseases resulting therefrom; there is one dentist for every 3,000 Canadians; flouridation of communal water supplies can positively prevent 60% of tooth decay.

Physical Fitness — Only one Canadian in six has even a minimum degree of physical fitness according to a recent survey of 50,000 people ranging in age from 13 to 50 in all provinces.

Industrial Loss — Over 500-million dollars is lost annually in wages through absenteeism, much of which is preventable.



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Cats have long history

CATS are known to have been domesticated as far back as 2400 B.C., but it was not until the 19th century that they became pets of economic value in English countries.

Breeding cannibals

CHEMICAL control of insects is receiving a great deal of attention, but disease and parasites as means of control are not being overlooked. Natural enemies have probably played a far greater part in reducing insect populations than is generally recognized, but the entomologist is interested in so controlling these enemies that he can use them effectively in reducing insect plagues. Before he can use them he must know them thoroughly.

Grow your own berries

THE red raspberry is one of our most popular small fruits and should be found in more prairie gardens. A plantation of raspberries is easily established, says the Swift Current Exp. Farm, is not difficult to maintain and with reasonable care should remain productive for eight to ten years. Raspberries do well on soil which will produce good field crops, but prefer soil that has been well manured and deeply plowed.

Chief is the most highly recommended variety and plants may be obtained from any one of a number of nurseries. If plants are obtained from a neighbor's garden it is important to use only vigorous, well-rooted, one-year-old canes or spring suckers. Spring planting is recommended. Rows should be at least six feet apart to permit cultivation with a small field tractor. Much closer planting is usually practised in the backyard garden.

Fair yields of fruit can be obtained from plantations which are neither pruned or staked, but larger fruit and higher yields may be expected if spring pruning is practised. Old canes are removed and one-year-old canes are thinned to five or six per linear foot of row. Support may be provided by placing fence posts down the centre of the row. Wire is strung along each side of the posts and the canes are made to grow between the wires. Cultivation close to the plants should be shallow so as not to injure the roots. It must also be frequent to keep the rows from becoming too wide. A row width of twelve inches is ideal. Harvesting should be done regularly as the fruit ripens. Picking in shallow baskets prevents much crushing of the berries. Winter protection is often provided by bending the canes to the ground and covering the tips with soil. The whole cane may be covered, but in sheltered spots snow may be depended on to drift in and cover the arched-over canes.

Beware of gas

STEALTHY death in the night is a peril when gas heating appliances are improperly hooked up, warn officials of the Alberta Department of Industries and Labour. During the first three weeks of 1959, two men lost their lives in separate mishaps because propane gas heaters in their living quarters had inadequate air circulation.

Alberta safety regulations require intake and outlet venting of at least one square inch in duct size for each 2,500 B.T.U. rating of gas heating appliances of either natural gas or propane units.

Propane gas heaters pose the greatest danger because they offer unusual simplicity and speed in installation. Hook-ups can be made in virtually a matter of minutes by most handy-men.

Furthermore, dangers of explosion from propane fuel leaks are more pronounced. Propane is heavier than air and settles near floor surfaces. Only relatively long airing or forced ventilation will dispel accumulations. Observance of basic precautions will alleviate practically all dangers connected with the use of propane and natural gas heating appliances.

Proper intake for combustion air and the venting of burner fumes must be the first consideration. Users of propane gas heating appliances should satisfy themselves that their units have automatic fuel shutoff when the flame in burner or pilot light goes out. Safety approved appliances carry the marking of some recognized national testing agency.

The Gas Protection Branch, Department of Industries and Labour, Edmonton, will supply details on safety provisions free of charge.

Pamper lambs

ACCORDING to Kansas State College completely pelleted rations are making a hit with lamb feeders. The lambs, they say, seem to eat more, get along well and gain faster. Pellets made from sun-cured hay are better than those from dehydrated alfalfa.

Judges for Edmonton Show

FINAL selection of live stock judges for the Edmonton Spring Show have been completed.

The following are the judges

for the 1959 Spring Show, Mar. 23rd to Mar. 31st:

Pure-bred Cattle:

Aberdeen-Angus — C. Hochstein, Pincher Creek.

Shorthorn — Rhys Williams, Melville, Sask.

Hereford — John Hay, Nanton, Alberta.

Fat Stock—Ed. F. Noad, High River.

Futurity Championship — This judging is done by a panel of 5 judges. The three breed judges plus two neutral judges who are W. H. T. Mead, Alberta Livestock Commissioner, and J. W. Grant MacEwan, Calgary.

Swine Judge — W. A. Greenway, Acme.



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NO. 1 WHITE LEGHORNS	16.00	34.00	18.00	38.00
NO. 1 WHITE ROCKS	17.00	28.00	19.00	28.00
WHITE LEGHORNS	15.00	32.00	17.00	36.00
RED x LEG. CROSS	15.00	32.00	17.00	36.00
PARAMOUNT REDS	16.00	29.00	18.00	29.00
NEW HAMPS.	16.00	29.00	18.00	29.00
BARRED ROCKS	16.00	26.00	18.00	26.00
WHITE ROCKS	16.00	26.00	18.00	26.00
LIGHT SUSSEX	16.00	26.00	18.00	26.00
PARAMOUNT COLUMBIANS	16.00	26.00	18.00	26.00
RED x BARRED ROCKS	16.00	26.00	18.00	26.00
RED x LIGHT SUSSEX	16.00	26.00	18.00	26.00
BROILER CHICKS	16.00		18.00	

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Add 5c per poult on all poult orders less than 100.

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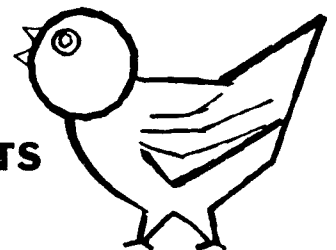
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Truck agreement

A NEW reciprocal trucking agreement with North Dakota has reduced the license fee for truckers by 30 per cent. Under the old agreement, Manitoba truckers operating to (or through) North Dakota paid 50 per cent of the full license fee of that state; now, they will pay just 20 per cent. The same applies to North Dakota truckers operating to (or through) Manitoba.

Water insurance

AN earth dam and water storage reservoir is being constructed under the P.F.R.A., near the town of Rosthern, Sask., where a small unpredictable creek has provided the only water in the past. The project will serve a district often hard hit by the lack of water. About 13,300 people will benefit directly from the scheme. A dug-out behind the dam will have a storage capacity of 184 acre-feet.

Prospects for sunflower seed

AN effort was made last season to establish sunflowers as a commercial crop for southern Alberta. Forty-five hundred acres were grown under contract and the results obtained indicate that a large increase in the acreage of this crop can be expected next season. The crops were spread widely over the southern area, extending from Strathmore to the southern

boundary and from Claresholm to Medicine Hat, nearly all of them on dry land.

Since few growers had previous experience in growing sunflowers, some mistakes were made and these resulted in low yields. Thin or uneven stands, and weeds, were probably the chief reasons for this, but the percentage of unprofitable crops must have been very low. The experience gained should enable growers to produce better crops this year. Most of the crops yielded from 600 to 1,200 pounds per acre. At the contract price of five cents per pound these gave quite satisfactory returns.

Alfalfa growing on the prairies

GROWING alfalfa on the Canadian Prairies has been limited in the past, largely because available varieties lacked drought resistance and winter hardiness. Stands did not persist in the drier regions for more than a few years.

Dr. D. H. Heinrichs, of the Swift Current Experimental Farm, says the use of poor establishment practices and abusive management practices after the crop was established, contributed to the lack of success with alfalfa.

The introduction into Canada of the variety Ladak, and, more recently, the development of the variety Rambler has greatly changed the alfalfa picture. These varieties can be grown with good success anywhere in the Prairie Provinces.

Rambler is much hardier than Ladak and persists better under conditions of drought and overgrazing. It is the variety recommended for pasture use on dry land everywhere in the Prairie Provinces, and for hay use also, in the southern dry areas where only one cutting of alfalfa is normally taken.

The variety Grimm, first used commercially in Western Canada, still does quite well as a hay crop in the park belt area of Saskatchewan and Alberta. The new variety, Vernal, has performed exceptionally well in Manitoba. Rhizoma alfalfa is not recommended in the Prairie Region of Canada because it lacks hardiness and is quite susceptible to certain diseases.

Rambler alfalfa excelled all other varieties in winter hardiness in a test across Western Canada.

Although Ladak suffered more winter damage than Grimm in this test, the reverse was the case in most earlier tests. Ladak is more drought resistant than Grimm and, under conditions where drought contributes to winter-killing, it usually persists better than Grimm.

In hay yielding ability Rambler has been as good, or slightly better than Ladak, and definitely better than Grimm at Swift Current, Saskatoon, and Melville, Saskatchewan; and Lacombe, Alberta. In Manitoba,

Rambler has yielded slightly less than Vernal and Ladak as a hay crop. Recent trials all indicate that Rambler does especially well in mixture with grass for pasture.

Dr. Heinrichs advises the use of Rambler for hay and pasture

production on dry land in Saskatchewan and Alberta, and Ladak and Grimm as second and third choices respectively. In Manitoba it may be advisable, he says, to use Ladak and Vernal for hay and Rambler for pasture production.

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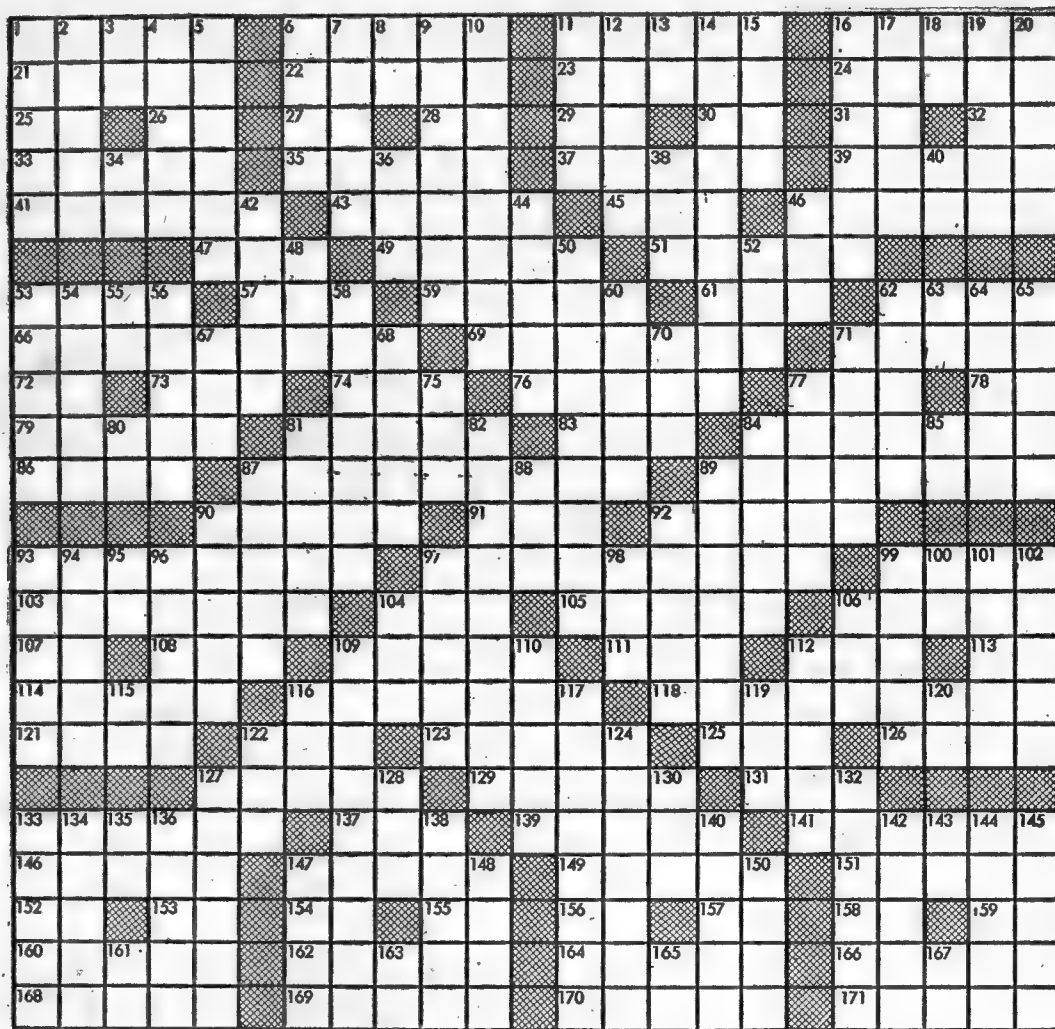


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Crossword Puzzle



ACROSS

- 1 Big
6 Kind of acid
11 Hirsute adornment
16 Unit of electrical capacity
21 Almost (poet.)
22 Place of combat
23 Esoteric
24 Macaw
25 Inspector general (abbr.)
26 New Zealand native fort
27 Japanese measure
28 Symbol for chromium
29 By
30 Early bronze coin of China
31 Kind of palm
32 Pronoun
33 Interprets
35 To mis-present
37 City of Massachusetts
39 Tantalize
41 Baseball pitch
43 One defeated
45 To put on
46 Aided
47 Ethiopian title
49 Giver
51 Additional
53 A fountain
57 Kobold
59 To reclose vent of cask
61 Electrified particle
62 Walked on

- 66 To chide
69 Refuse
71 Hair dye
72 Hawaiian hawk
73 Part of foot
74 Man's name
76 Performing
77 Country of S. America (abbr.)
78 Spanish for yes
79 Surgical thread
81 Wall division in circus arena
83 Compass point
84 Spanish American dish (pl.)
86 Former Russian ruler
87 Immovable
89 Swift
90 Social division (pl.)
91 Day (abbr.)
92 A journal
93 Starlike
97 German defensive line in World War I
99 Oriental nurse
103 Body of troops
104 Old times (poet.)
105 Din
106 Struck
107 Hebrew letter
108 Snake
109 The deadly carrot
111 Ethiopian title
112 Weep in certain way
113 Beast
114 Tilts
116 Mourned

- 118 Airplane with one main supporting surface
121 Volcano
122 Annamese measure
123 Appendage to a bill
125 Gist of a story (colloq.)
126 Viewed
127 Feminine name
129 Domesticates
131 Number
133 In slumber
137 Cloth measure
139 At no time
141 Swift current in a river
146 Begin
147 Goodbye (Sp.)
149 Eagle's nest
151 Bird of prey's claw
152 Therefore
153 Part of Bible (abbr.)
154 Symbol for sodium
155 Symbol for tellurium
156 Near (abbr.)
157 New Zealand native fort
158 Italian (abbr.)
159 51 (Rom. num.)
160 Entertain
162 Hackneyed
164 Kind of duck
166 Lubricated
168 Married
169 Ecclesiastical council

- 170 College officials
171 Loop with running knot

DOWN

- 1 Dens
2 Heavenly being
3 Syllable of scale
4 Yawned
5 Pencil rubber
6 Part of fishhook
7 Bay window
8 Football position (abbr.)
9 A tooth
10 Swayed to one side
11 Prejudice
12 Toward the center
13 Article
14 Feeling of compunction for
15 Percussion instrument
16 More obese
17 A water spirit
18 Sun god
19 Get up
20 Stamped as to time
34 The gods
36 Danish weight
38 Card game
40 News agency
42 Scope
44 Lassoed
46 Chicken
48 New Mexico Indian
50 To send goods again
52 Garden tool
53 Pass off as genuine
54 Musical instruments
55 State (abbr.)
56 Instructor
58 Salary
60 Flash
62 Of a tissue
63 Symbol for radon
64 Attack
65 Flower
67 King
68 Arthur's lance
69 Silk worms
70 Chemical suffix
71 Author of The Iliad
75 A connective
77 Laded water from boat
80 Symbol for tantalum
81 Blotch
82 Sworn statement in writing (law)
84 Indian tent
85 Chinese weight unit
87 Sailing vessel
88 Form of "to be"
89 Ammunition wagon for mobile artillery
90 Rood
92 King of Troy
93 Fruit
94 Slumber
95 Territorial army (abbr.)
96 Hero who tried to mount to heaven on eagle
97 More cunning
98 In favor of
99 Move at an easy pace
100 A volume
101 Make expiation
102 Bewitched
104 Son of Gad (Bib.)
106 Bribe
109 One-humped camel
110 Kind of cat
112 Serious
115 Article
116 Pike-like fish
117 Conducted oneself
119 Hard-shelled fruit
120 A French champagne
122 Toy
124 Day dream
127 Cleared
128 Fourth calf
130 Weight of India
132 Country
133 Province of India
134 An ostiole
135 Musical syllable
136 Uneven, as if eaten away
138 Game of chance
140 Mature
142 Courtyard
143 Prefix: not
144 Apportions out
145 Mean
147 Emmets
148 Sow
150 Hearing organs
161 Syllable in Guido's scale
163 Preposition
165 The ambary
167 Behold

Solution On Page 46

Home-made sausage

A GREAT many farmers — or farm wives — make their own sausage, but for those who would like to and don't know how here is one method, from a Michigan State College meat specialist, for preparing pork sausage:

Use three-fourths lean meat to one-fourth fat. Cut the trimmings into one-inch cubes, then weigh the results. For each 25 pounds add these ingredients:

Nine tablespoons of salt, 4 tablespoons of black pepper, 2 tablespoons of ground sage and 1 tablespoon of ground nutmeg, or cloves or any of the spice your family likes. But mix it well with the one-inch cubes of pork trimmings.

Then you're ready to put the seasoned meat through the grinder.

Don't hold the sausage over four to six weeks in the frozen food locker, he advises. The salt makes sausage rancid after that long.

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Sour joke

Dear Sir:—

I should like to comment on a cartoon in your October issue, which showed a couple of hawks perched in a tree behind the farmyard. One is saying to the other: "You should have seen the cute little chick I picked up the other day."

However funny this cartoon may have been, it was something else too — an injustice against the whole hawk family. We all know that some hawks, notably the Goshawks, take chickens, but nowhere has it been said oftener than in the Farm and Ranch by Kerry Wood and others, that many hawks are the farmers' friends and rarely, if ever, deserve to be shot. So why undo even a little of this good work by publishing this cartoon...

The cartoon, however humorous, was not in the best interests of wildlife conservation.

Yours truly,
Fred Schutz,
Bluffton, Alta.

* * *

Egg factory

Dear Sir:—

Thought this might be of interest...

I killed a year-old hen a while ago, next day I cleaned it and found four good shelled whole eggs and three broken-shelled eggs inside, besides several yolks. The hen was not ailing and ate her food well.

The reason I killed her, after feeling her pelvic bones as I always do before killing one, I found they were unusually deep. I must say I was astonished to find so many eggs inside her.

Yours truly,
Mrs. B. Gray,
Squillax, B.C.

* * *

Finish farming

Dear Sir:—

Visiting at the home of P. Yacooshin on the week-end of August 22nd was Professor Otto Valle, head of agricultural research, Tikkurila Experimental Station, Tikkurila, Finland.

Professor Valle was on his way to Lacombe Experimental Farm. His objective was to find farmers to grow Tamisto Red Clover and Tamisto Timothy seed. In Finland the growing season is too short to produce any quantity of good hay seed, and their need of good hay is imperative to their dairy industry. The Tamisto Red Clover and Tamisto Timothy were developed by Prof. Valle and have proved to be the most leafy and hardy hay for their growing conditions

Professor Valle was very interested in the crops of Central Alberta... Olli barley was introduced to Canada by Professor Valle about 20 years ago. He has now developed a new barley called "Pirrka" which he claims is a better yielding and better malting barley. He sent me ½ pound in 1956 which I multiplied and seeded to eight acres. Prof. Valle and I inspected the field for off-type heads but did not find any. This crop threshed at 70 bushels to the acre...

Prof. Valle showed colored slides of agriculture in Finland. There is so much rain in Finland that they straight combine their barley with 27% moisture and artificially dry all the grain. They never cut in the swath for he said it is so wet that grain would not dry but instead would sprout in the head. They will not dry on the ground either, but must be put up on sticks to dry...

Yours very truly,
P. Yacooshin,
Eckville, Alta.

* * *

Off the beam?

Dear Sir:—

Now that the plebiscite on the Egg Marketing Board is history and the hog price has hit the floor, and is likely to press the floor lower, perhaps the good editor of the Farm and Ranch Review can advise the producer of hogs what his next move should be. Should he let his equipment stand idle until the packer is ready to bid up again? Or should he co-op with his fellow producer to get a just price through a marketing board or government subsidy, or what have you?...

... I have been a reader of the Farm and Ranch Review since 1912, but sorry I can't agree with Mr. Stuart MacLeod that your editorials get to the heart of the matter every time. As to my thinking, you are sometimes quite off the beam.

Yours truly,
James A. Hughson,
DeBolt, Alta.

* * *

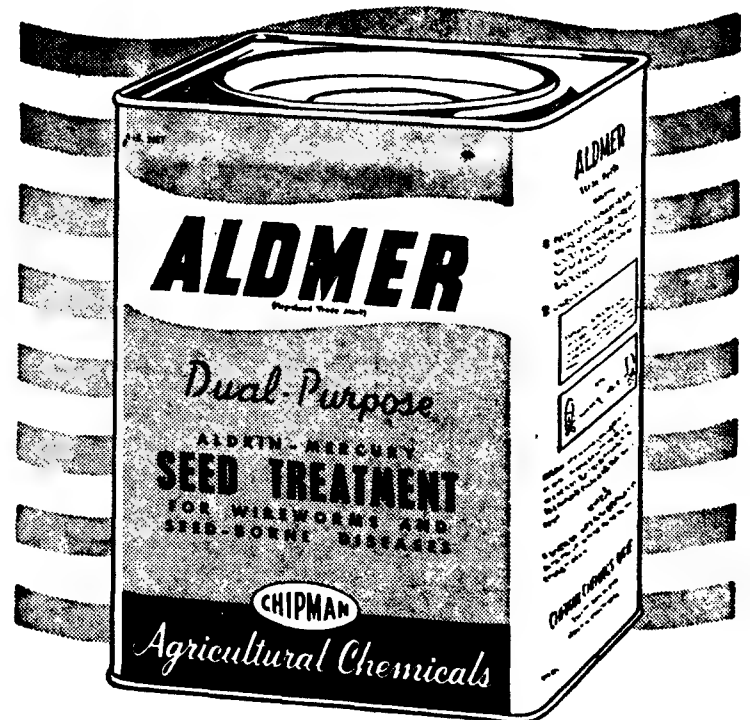
On the beam?

Dear Sir:—

I wish to commend you for your fine article that was in your Review a while ago. The article (Taxing the Farmers) was the best I've seen for a long time, and I hope to see more of them. The government taxation policy is the biggest enemy of the Family Farms.

Yours truly,
Charles Bauer,
Stettler, Alta.

(Continued on page 44)



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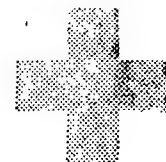
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(Continued from page 43)

Island ranching

Dear Sir:—

I noticed in your Dec. issue (Letters to the Editor) an article headed "Island Ranching" that I would like to inform the public about.

Due to the impression someone may get from that letter, I personally know there is no ranch on Banks Island (since I do not live far from there).

The so-called rancher moved to Banks Island in Dec., 1953, as a hired hand to two partners, who gave up the following spring. In lieu of wages the stock consisting of (approx. 20 sheep, 19 scrub cattle and 3 horses) was given to this so-called rancher, who abandoned them all a few months later. The wolves have killed all of the sheep and most of the cattle, except seven or eight that died of exposure the first winter.

There is certainly no winter feeding problem for this self-styled rancher since he abandoned all stock to rustle for themselves and hasn't seen them in the last four years.

This I know; his stock farm consists of four horses which run along the beach and greet any passing boat—seem so glad to see any humans. Do you call this a ranch?

This letter was written as a warning to people, not to be deluded by false claims.

Yours truly,
S. Gray,
Oona River, B.C.

Dear Sir:—

To all those gentlemen requesting information about Banks Island, thank you for your interest. I have received so many replies that it is really impossible for me to answer each letter individually. But if folks interested would kindly donate one dollar to cover cost of looking up special information which I will have to get from Government sources also mail of same, I will endeavor to give each one the information requested.

To all those who are interested, Banks Island is strictly a pioneering business. It has proven its stock-raising power. But schools, houses, church, power plant, roads and water system will have to be built by men willing to open up a new land. Transportation is strictly by sea. Banks Island is 50 miles southeast of Prince Rupert, B.C.

Yours truly,
John W. Rix,
Box 364,
Prince Rupert, B.C.

John — the greatest

Dear Sir:—

I noted considerable similarity in the passionate appeal of John Diefenbaker in the last election to that of the late William Aberhart in the 1935

As in the case of Mr. Aberhart, the chickens are now coming home to roost. If it were possible to bring back a Macdonald, a Laurier or any other departed statesman they would find themselves in the identical Alberta election, in each case many thought they were going to have all their long-sought wishes fulfilled; the tribute paid John: "The greatest man since Macdonald" and many other compliments.

position of Mr. Diefenbaker. He is simply trying to bolster up an outworn free enterprise economy that is slipping every day and will continue to slip until replaced by a social order that will come much closer to fulfilling the needs of the people.

Yours truly,
A. J. Curry,
Calgary, Alta.

Union solution?

Dear Sir:—

A discussion of politics led to a discussion of the practices of unionism and its rush toward Al Capone type gangsterism.

My friend — expressed the opinion that the wives of all union members should have a vote on all matters of policy and strikes.

After considerable argument, we concluded that a very different situation would evolve and all to the good of the general public and also to the working man and would logically put the unions in a far better light socially.

We wondered if this formula had ever been considered before, and, if not, just what might happen if the idea should be brought to the attention of the public...

Yours truly,
Chipman S. Wells,
Fort St. James, B.C.

The fates forbid

Dear Sir:—

The letter written by Mr. W. Bentley, of Deslisle, Sask., in your December issue, was interesting, especially the term "we can in the West have a solid block...", but for it to have a Social Credit government — the Fates forbid!...

Social Credit is based on the false supposition that there is never enough purchasing power, so they propose to just print more and distribute it to everyone, as a gift, not a loan.

As most people believe at the present time, there is too much money in circulation, hence inflation; but at all times the main trouble is maldistribution of purchasing power.

At the present time somebody has credit or purchasing power against everything in existence, every loaf of bread, tin of sardines, or tractor, etc., etc., and equal to it in value.

If a man makes boots and sells them to a merchant, maybe he doesn't want to spend his money right away, so he de-

posits it; he still has credit against production at large. That credit may lay idle and not be used, like it did during the depression, but it is still there.

So if huge amounts of Social Credit dividend were distributed it would be a case of there being in existence \$2 for every \$1 tin of jam, etc.

Yours truly,
W. Horner,
Eckville, Alta.

The death knell

Dear Sir:—

I have been becoming increasingly disgusted with your editorials. Why don't you give the socialists, as represented by the CCF, credit for all they have done for the people of Canada in the last 30 years, instead of always running them down?

If we are going to be able to combat the Communists on economic grounds, which we

SAWMILL

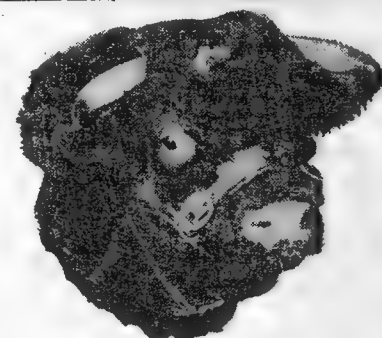
Complete with 48" Inserted Tooth Saw and all machine belts. A 12-foot, 2-Head Block Carriage with roller-bearing wheels, 32 feet of track and ways, Ball-Bearing Mandrel, and variable belt feed. Mill rebuilt and as serviceable as new. With this sawmill is a 3-side Pay-Egan Planer, surface 20", drop 8" and 13 1/2" between side heads for ship-lap, drop siding or matching. Has slotted side heads and various heads and knives, all machine belts, counter-shaft, and shavings blower with suction and discharge piping.

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Lloydminster, Alta.	May 5

For further information write:

Canadian Shorthorn Association

E. R. Henderson, Western Representative,
1239 Ninth Street East,
Saskatoon, Sask., Canada

must do if we are to survive, two items of major importance have to be carried out. A total check to inflation and a planned economic system to utilize our full potential.

Just whose side are you on? It's people like you and talk such as yours that will spell the death knell to democracy.

Yours truly,
J. M. Mjolsness,
Coronation, Alta.

Unjust tax on land

Dear Sir:—

I think its high time all organizations consider petitioning governments whereas the present tax on agricultural lands is unjust. It should be abolished, and the same to apply to urban residential home property with gardens, potato patches, etc.

The tax should be replaced with finances derived entirely out of Provincial revenue, collected partly from hundreds of thousands of cars, busses, trucks, heavily-loaded trailers and contents... many coming hundreds and thousands of miles to wear out streets past urban homes, also roads past rural homes. If additional revenue is needed place more taxes on liquors and alcohol beverages, tobacco and cigarettes, race track betting and luxuries, etc.

Homes should be as self-supporting as possible, and the main foundation of any town, city, municipality and province. We need protection from being penalized to finance government extravagance... CBC, etc....

Yours truly,
Henry Kelley,
(small rancher),
Millet, Alta.

A God send

Dear Sir:—

I am just a small farmer, but I know that no matter what old John has done, you just can't beat it.

When he was elected, money came to the elevators and we could just go and get it to pay our most pressing bills and taxes, and pay it back when we can. This year came the \$200 in cash. It may not mean much to Minnie Mack, but we are sure

thankful for it. It may not mean much to a big farmer, but to us it is a God send.

Your editorials and the rest are up to date and you sure know what you are talking about. You sure don't have to apologize to your readers.

Yours truly,
"Charlie,"
Carrot River, Sask.

Women's page

Dear Sir:—

I thought I would like to add my few words to those many readers who will miss Aunt Sal. Though we have not been subscribers for many years, I have begun to value her advice as the practical and common sense kind and her humorous comments as typical of her philosophy.

Also I enjoy the articles by Kerry Wood and F. A. Twilley's humor and interesting tales are read with much pleasure.

All in all, I find your magazine is a good one.

Yours truly,
R. K.,
La Riviere, Man.

Dear Sir:—

I hope you will agree with me that Aunt Sal deserves the modest... tribute which I am submitting, and hope you will see fit to use it in your magazine.

Yours truly,
Mrs. Herminie M. Riou,
Arborefield, Sask.

(We certainly agree that Aunt Sal deserves any and all praise she receives. Unfortunately lack of space does not permit printing the "tribute".—EDITOR.)

Dear Sir:—

I don't expect Aunt Sal, but could we have something besides two pages of "buy, buy, buy!"—buy sheets, buy personally, buy the new materials, buy a new hat, buy the new moist towel-lettes, buy the new this or that?

One recipe—a good idea it was, but food is our big item. Variety in our recipes is important; surely a few more than one—

And few of us need two pages of advice particularly when they

contain such things as "Cancel all the tasks you can."

Yours truly,
Mrs. D. Smith,
Carstairs,
Alta.

Dear Sir:—

I am finding your new (Women's) column very inter-

esting. I do think other house-keeping ideas make a good change from a straight recipe file.

I would never be without the Farm and Ranch Review and appreciate the larger print idea very much...

Mrs. A. Sandvold,
Prince Albert, Sask.

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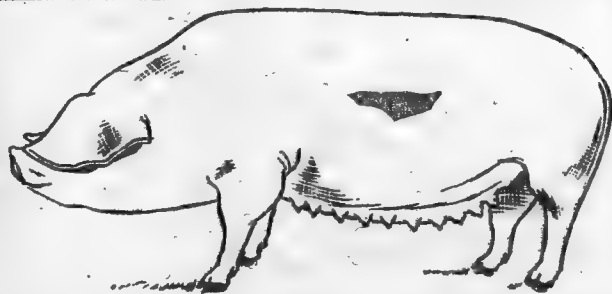
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WANTED

WANTED — Experienced man or woman as partner to start sheep raising; sold out cattle. E. Reimer, Mystery Lake, Alberta.

Stock yards busy

NEARLY 210,000 head of cattle and calves were purchased in the St. Boniface, Man., stock yards last year to fill U.S. orders.

Farmers help with hail studies

ALBERTA farmers, says, Dr. R. H. Douglas, director of Alberta Hail Studies, are making a major contribution to a better understanding of hailstorms. Hail reports sent in by farmers, for the third summer, will be carefully studied during the winter and related to the thunderstorm activity as revealed by radar weather records.

Research greenhouses for Manitoba

CONSTRUCTION of two greenhouses on the campus of the University of Manitoba by the Canada Department of Agriculture has been approved. The greenhouses, designed for research work in cereal breeding and entomology will cost \$101,993.

Both buildings will be of aluminum construction, 86 feet by 21 feet six inches.

Use of the six compartment entomology greenhouse will include: (1) Rearing of virus carrying and virus-free insects; (2) Growing of plants as food for insects; (3) Study of aster yellows disease resistance; and (4) Study of the killing power of insecticides, fruit insect investigations and grasshopper predator studies.

The other greenhouse will contain five compartments and will be used for studies on cereal breeding.

Sky map


MANITOBA'S first official air navigation map is being distributed throughout the province and beyond her borders as the government keeps pace with the increasing use of private air transportation.

The air map is completely detailed. It lists all 85 airports, both land and water, up to Lynn Lake and Churchill, and includes all necessary navigational date.

Holding the line

THE general area of rat infestation, in 1958, in Alberta, was confined to the same regions as in the previous year, with the exception of a northward thrust into the Frog Lake-Cold Lake regions. 3,774 farms along the border were inspected and a total of 637 premises were found infested. Of these, all but 52 were completely exterminated; the remainder consisting of small colonies containing few rats.

Control officials report that westward migration has been checked, and, rats are confined mainly to a narrow strip approximately 12 miles wide inside our eastern border. During 1958, over 10 tons of Warfarin dry-mix bait and over 10,000 quarts of water bait were used to kill an estimated 58,000 rats. Much credit is due Alberta residents for their co-operation with Municipal and Provincial Pest Control Officers. Only by continued public support can Alberta stem the rat invasion.



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ANEAR	ARENA	INNER	ARARA
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REDES	BELIE	SALEM	TEASE
SLIDER	LOSER	DON	HELPER
RAS DONOR OTHER			
FONT	NIS	REPE	ION
OB JURG	ATE	DECLINE	HENNA
TO TOE	IRA	DOING	BOL SI
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ETNA	TAO	RIDER	NUB EYED
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ASLEEP	ELL	NEVER	RAPIDS
START	ADIOS	AERIE	TALON
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AMUSE	TRITE	EIDER	OILED
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JOHN DEERE BALERS are Designed to Win

...NOT Just to Tie



14-T Twine-Tie

No other baler in the field compares with the John Deere 14-T Twine-Tie with its tremendous capacity at low cost. It has earned its reputation as the "Family-Sized Baler with True Custom Capacity." Equally important, the 14-T is designed and built for outstanding performance in every crop and field condition. Its easier adjustments and operation take the "chore" out of baling. Even your youngster will handle the 14-T like an "expert."

214-T Twine-Tie

If you prefer bigger, heavier, denser twine-tied bales, choose the John Deere 214-T Baler. It's a real "pro"—a flawless performer even when the going is tough and the pressure is on. You'll like the perfect bales it turns out with clock-like regularity. Outstanding capacity, rugged dependability, and economical operation make the 214-T tops in its class. Better take a good look at this outstanding money-maker.

One-Man Baling and Automatic Loading

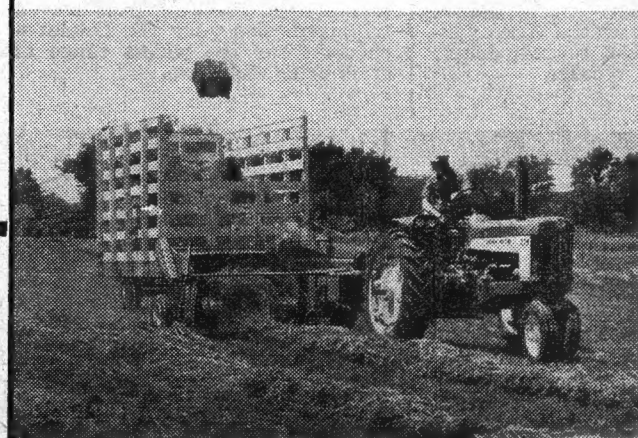
Revolutionary is the word for this outfit—the family-sized 14-T Baler with Bale Ejector (at right) loads bales, approximately half-size, into wagons automatically . . . eliminates costly help. Half-sized bales tumble into place in barns or in stacks made with wire or slatted snow fencing—no stacking is required. Half-sized bales offer many advantages—they're easier to unload . . . easier to store . . . easier to feed. The Bale Ejector is available for both the 14-T and 214-T, including those now in the field. You'll cut labor costs . . . speed work . . . eliminate back-breaking drudgery . . . get better hay in the barn.

If baling were simply bundling up the crop, most any baler would do. John Deere Balers—Twine or Wire—not only make better bales and more of 'em but they're *dependable* performers in every crop and condition. They're designed and built to operate at top capacity day in and day out with less "down" time . . . less costly maintenance. You take full advantage of good weather . . . put up better hay faster, season after season.

Big capacity . . . simple design with fewer parts . . . and fully protected operation—that's

how a John Deere wins bigger profits. One glance tells you these balers are wide-open hay handlers with no extra "gadgets" to complicate movement of hay or cause costly field delays. Fast handling from the extra-wide pickup . . . to the large floating auger and fork-type feeder . . . and through the rugged bale case means more time working . . . less time fixing . . . minimum maintenance costs.

See your John Deere dealer. Ask for a free demonstration on your farm. Mail coupon below for free descriptive folders.



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"WHEREVER CROPS GROW, THERE'S A GROWING DEMAND FOR JOHN DEERE FARM EQUIPMENT"

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Please send me free folders on the following John Deere Balers:

☐ 14-T Twine-Tie Baler ☐ 214-T Twine Tie Baler
☐ 214-W Wire-Tie Baler

Name _____ ☐ Student

R.R. _____ Box _____

Town _____

Province _____

Hook-up for **FAST** big-acre tillage and seeding

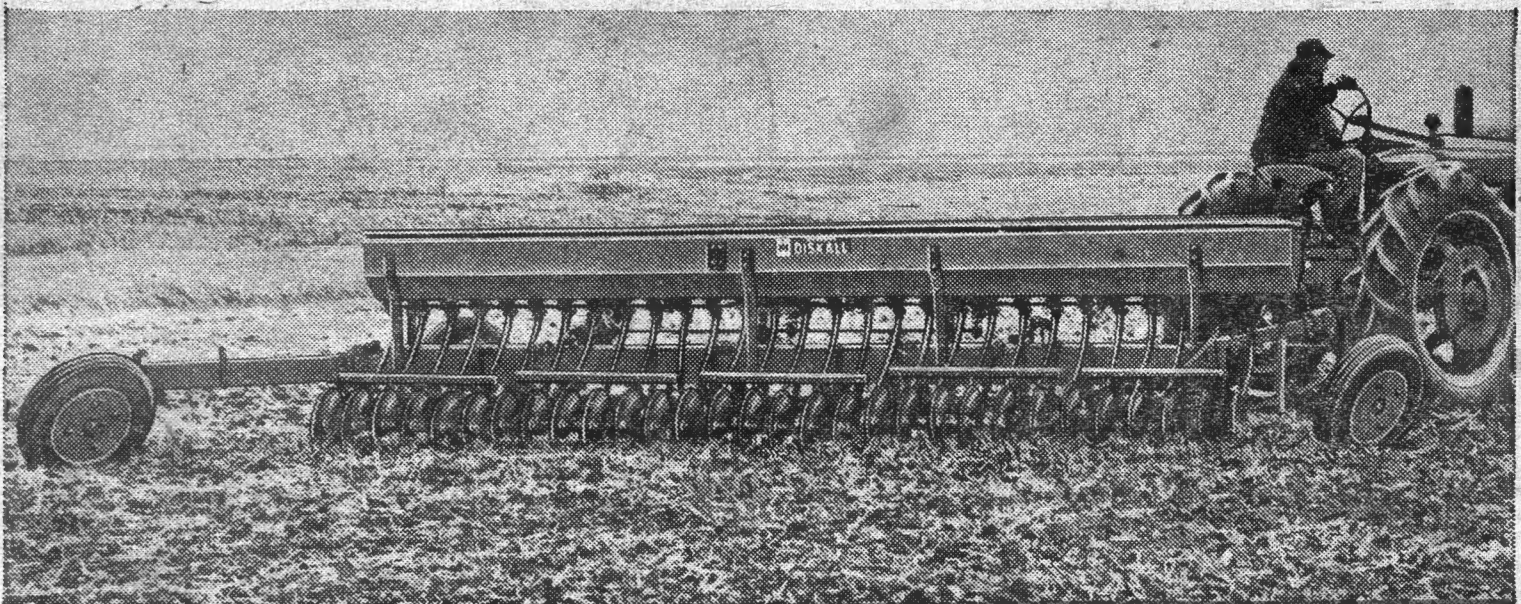
WITH THE McCORMICK

DISKALL

NOTHING EATS UP SPRING WORK FASTER! This work-hungry machine has tremendous job range and capacity. Combines level *seed bed preparation and seeding* in one fast operation. Heavy-duty stamina built into every part. Exclusive IH

Austempered discs take all the abuse and punishment of toughest going. Rugged, low-built hitch fits any tractor. Available in 9, 12, 15 and 18 foot widths, with seeding attachments optional. See the Diskall at your IH Dealer's.

Check the value — lowest priced of any comparable implement in the field!



INTERNATIONAL HARVESTER

INTERNATIONAL HARVESTER COMPANY OF CANADA, LIMITED, HAMILTON, ONTARIO
Farm Tractors and Equipment • Motor Trucks • Crawler Tractors • Construction and Commercial Equipment

McCORMICK No. 50 CHISEL PLOW

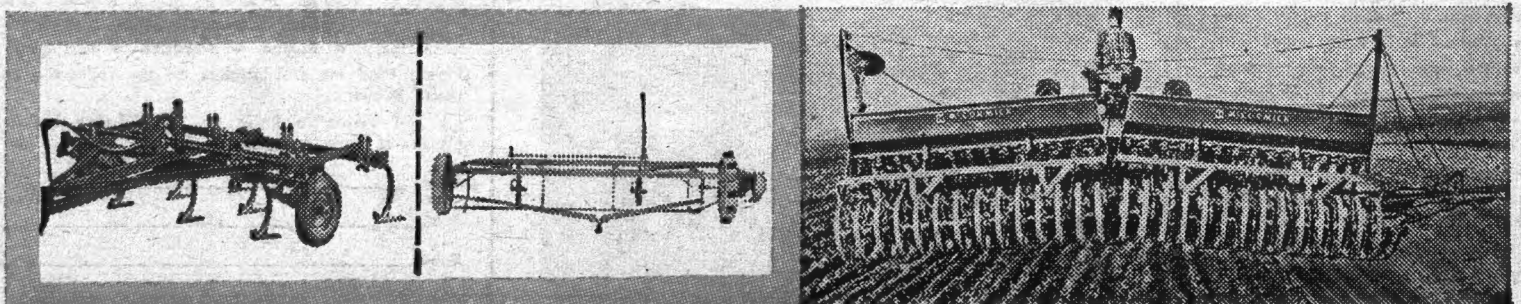
The field-proved "50" is a brawny brute, with high trash clearance and everything it takes for a long, hard life behind any power, in toughest conditions, season after season. Heavy-duty, all-welded steel box frame construction. Exclusive patented clamps hold the Boron steel shanks to their work. Full range of chisels, shovels and sweeps.

McCORMICK No. 5 ROD WEEDER

Built for heavy-duty dryland operation in hard or soft soils—with ample high clearance to meet any trash conditions. Positive drive gets all the weeds. Available in widest range—single, duplex and triplex widths. Also available, the big, rugged, deluxe No. 6 Rod Weeder.

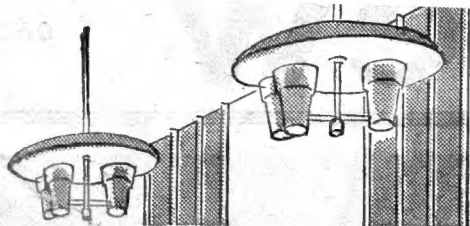
McCORMICK K-LINE PRESS DRILLS

Recent dryland farming operations have served to emphasize the big contribution K-Line Press Drills can make towards securing more bushels per acre, under any conditions. Sizes to fit every operation—basic 14 marker units can be duplexed or even triplexed. See your IH Dealer—choose from the widest range of grain drills anywhere.





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QUALITY
INCO NICKEL



Nickel-containing stainless steel coffee urns are good-looking, easy to clean and resistant to corrosion.

In Canadian restaurants, the trade mark of cleanliness is *Stainless Steel*

CONTAINING INCO NICKEL



Cleanliness, yes! And beauty, too. Nickel-containing stainless steel protects the food you eat . . . and makes the restaurants you eat in more attractive.

Nickel-containing stainless steel resists corrosion from the organic compounds present in foods. It is easy to clean . . . and it has a rich silvery lustre that stays bright and beautiful for years. No wonder so many modern Canadian restaurants use stainless steel equipment.

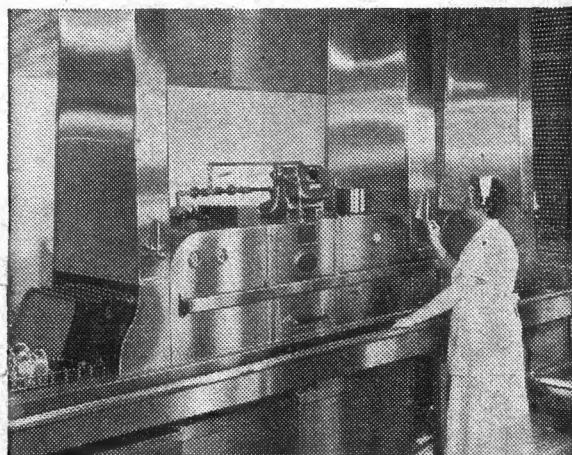
Nickel helps give stainless steel its lasting beauty and its exceptional resistance to rust and corrosion. Another example of quality Canadian products made from quality Inco Nickel.

Write for a free copy of the colourful 32-page illustrated booklet "The Exciting Story of Nickel."

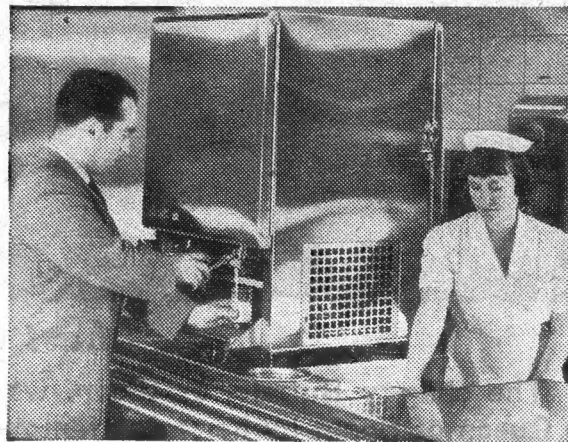
THE INTERNATIONAL NICKEL

COMPANY OF CANADA, LIMITED

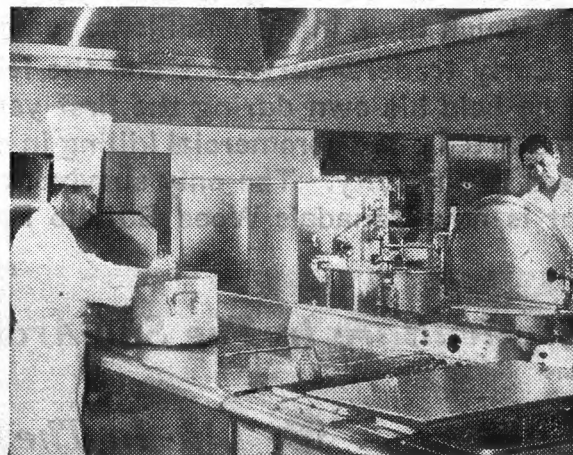
55 YONGE STREET, TORONTO



Nickel-containing stainless steel is used in commercial dishwashing machines to withstand corrosive detergents.



Milk dispensers and refrigerators made of nickel-containing stainless steel, inside and out, protect the purity of foods.



Kitchens of modern restaurants use nickel-containing stainless steel soup kettles, pots, pans, sinks and counter tops.